COOPERATIVE SALMON DRIFT GILLNET TEST FISHING IN THE LOWER YUKON RIVER, 2002

By

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and

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ABSTRACT

The Lower Yukon River drift gillnet test fish program is designed to assess the run timing and relative abundance of chinook, chum, and coho salmon. The feasibility of using drift gillnets to obtain pertinent information inseason fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage, is tested. The ability of the Middle Mouth drift gillnet test fishery to correlate with trends in other Lower Yukon test fisheries or the Pilot Station sonar passage estimates were inconclusive. Drift fishing at incorrect times in relation to high tides may have caused the failure of Middle Mouth to correspond with other assessment projects in the Lower Yukon River during the summer season. Fall operations for drift gillnet test fishing in the Lower Yukon River were similar to trends observed in the sonar passage estimates obtained at Pilot Station. Age, sex and length measurements were taken; run timing recorded and catch per unit effort calculated for each species.

KEY WORDS: Yukon River, chinook, chum and coho salmon, gillnet test fishery, run assessment, catch per unit effort.

INTRODUCTION

Lower Yukon drift gillnet test fish program is designed to assess the run timing and relative abundance of chinook *Oncorhynchus tshawytscha*, chum *O. keta,* and coho *O. kisutch* salmon. The goal of this project is to determine the feasibility of using drift gillnets to obtain pertinent information inseason that fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage. These data may be used in conjunction with other information to help ensure that sufficient numbers of salmon pass the Lower Yukon to provide for escapement into Alaskan and Canadian tributaries, and to provide for subsistence uses.

The total number of chinook and chum salmon returning to the Yukon River has been depressed in recent years. These low numbers prompted the Alaska Department of Fish and Game (ADF&G) to expand an existing drift gillnet test fishery located at Big Eddy to include drift locations at Middle Mouth with the assistance of the Emmonak Tribal Council. The new program includes two drift gillnet test fishing locations at the Middle Mouth of the Yukon River delta. With the addition of the Middle Mouth drift sites to the Big Eddy drift sites, assessment is possible for salmon transiting the North, Middle, and South Mouths of the Yukon River Delta downstream from major commercial and subsistence fisheries.

Information obtained by the Middle Mouth drift gillnet test fishery may supplement the existing summer season chinook salmon set gillnet test fisheries in the Lower Yukon. Beginning in 2001, the chum (summer and fall) set gillnets nets were replaced by drift gillnets nets. In recent years, managers were uncertain if the set gillnets were providing representative samples of the chum (summer and fall) salmon runs at the Middle Mouth and Big Eddy test fishing sites. Deviation of the drift gillnet data from the set gillnet data may be explained by changes in riverbanks, channels, and sand bar migrations.

OBJECTIVES

The objectives for the Lower Yukon drift gillnet test fisheries are to:

1.) Collect relative abundance and run timing information on chinook, chum (summer and fall), and coho salmon on a daily basis.
2.) Maintain an up-to-date log of catches and catch per unit effort (CPUE) index by species.
3.) Sample and record age, sex, and size data used in scale pattern analysis.

METHODS

Two locations were used in 2002 for the Lower Yukon drift gillnet test fish project. The first test fishing location, Big Eddy, is located in the main channel of the South Mouth of the Yukon River delta upstream and southeast from the village of Emmonak (Figure 1). One drift station was located on each side of the north and south shore. Station 1 at Big Eddy was located directly south of the confluence of the Kwiguk Mouth and South Mouth near the southern shore. On 8 June, Station 1 was moved upstream approximately 0.5 mile (800 m), because of the formation of a sandbar that was channeling fish away from the original drift area. Station 2 was located directly east of Station 1 on the opposite shore approximately 0.5 mile (400 m) downstream and southeast from the starting point of Station 1. The Big Eddy drift gillnet fishing locations were primarily chosen to assess salmon transiting via the South Mouth of the Yukon River delta. The locations were secondarily chosen because of their proximity to the village of Emmonak.

The second test fishing location, Middle Mouth, was located upstream and south from the confluence of the Kawanak and Kwikpak Passes to assess numbers of salmon entering the North and Middle Mouths of the Yukon River delta (Figure 1). Two drift gillnet stations were utilized in Kwikpak Pass near Hamilton Slough, one on either side of the outlet at approximately river mile 24 (39 km). Station 1 was located on the west side of the river and Station 2 was located on the opposite bank. The Station 1 drift gillnet starting point was at a place named "Hootch's Camp" approximately 25 minutes from the Middle Mouth camp by skiff. Station 2 was located on the East bank approximately 0.25 to 0.50 mile (400-800 m) downstream and north from Hootch's Camp.

Different sized mesh gillnets were used in the summer and fall fishing seasons. In the summer season, two drift gillnets with different mesh sizes were used from 29 May to 15 July at Big Eddy and from 5 June to 15 July at Middle Mouth. A single mesh size drift gillnet was used in the fall season from 16 July to 28 August, when the test fisheries were terminated for the season. The three different types of gillnets were of similar construction, 50 fathoms (91.4 m) in length with a cork marking 25 fathoms (45.7 m). The summer season used gillnets designed to capture chinook and summer chum salmon. The gillnets for chinook salmon had 8.25-inch (21.0 cm) mesh and were 35 meshes in depth, and the summer chum salmon gillnets were composed of 5.5-inch (14 cm) mesh and was 45 meshes in depth. The gillnets used for catching fall chum and coho salmon were constructed with 6.0-inch (15.2 cm) mesh and were 45 meshes in depth.

All gillnets were fished by drifting from 22 foot (6.7 m) open aluminum skiffs with one end of the net attached to the skiff and the other attached to a buoy. In times of increased salmon abundance, inclement weather, or excess debris the net would be shortened to the 25 fathom cork to make the net more manageable. When 25 fathoms of the gillnets were fished, that information was recorded and compensated for in the CPUE calculations. TDrift gillnets were fished twice daily during both tidal surges at the Middle Mouth and Big Eddy locations. Depth profiles at each of the drift stations were made at various times during the season. To take depth profiles, technicians checked depths during the setting and the retrieval of the drift net.

Times used for determining tides were based on the Nushagak tide table. Timing of the tidal surge at Big Eddy was determined to occur seven hours after the published high tide for the mouth. The Middle Mouth tidal surge required a correction factor of 5.5 hours after the posted high tide. After low catch rates and experimental drifting the Middle Mouth drift time was adjusted to 3.5 hours after the posted high tide on 15 June 2002.

The deployment, fishing, and retrieval of the drift gillnets were recorded for each sampling event. CPUE was calculated using fish per 100 fathom-hours:

$$CPUE = [((100 \text{ fathom} * 60 \text{ minutes}) * (n))/(L*T)]$$

where:

n= number of fish caught,
L= length of net in fathoms
T= the time the net fished

The time the net fished was calculated using:

$$T = ([(\text{set time} + \text{retrieval time})/2] + \text{soak time})$$

(Molyneaux 1999). The amount of time the gillnet was soaked varied. An independent CPUE calculation was made for each drift fished. This value was summed with CPUE calculations from the same day and gear type and then averaged to obtain a CPUE for the day and gear type:

$$\text{Daily CPUE} = ((\sum CPUE)/n)$$

where:

n=number of sets for the given day and gear type.

The fish captured were counted and released unharmed, unless injured by the netting activity. Fish injured by gillnets were distributed locally for subsistence purposes.

Retained salmon were sampled for age, sex and length (ASL) information. All salmon lengths were measured as mid-eye to fork-of-tail length and rounded off to the nearest five millimeters. Three scales were taken from each chinook and coho salmon sampled. One scale was collected from each summer and fall chum salmon sampled. The sex of each salmon was verified through visual examination of the gonads.

Summer Season

Big Eddy and Middle Mouth locations were fished twice daily using drift gillnets equipped with 8.25 (chinook) and 5.5 (chum) inch stretched mesh as previously described. Drift gillnet fishing at the Big Eddy location started 29 May and continued through 15 July. Middle Mouth drift gillnet fishing started 5 June and continued through 15 July. Both Big Eddy and Middle Mouth

locations were fished using similar methods. Station 1 was fished first using the chinook salmon gillnet followed by the summer chum salmon gillnet, and then Station 2 was drifted using the chinook gillnet followed by the summer chum salmon gillnet. The objective was for the net to be retrieved after an estimated 30 fish had been captured, but before the net had been fished twenty minutes. The species, number caught, number retained, mesh size, station, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection.

Fall Season

From 16 July until the end of the Lower Yukon drift gillnet test fishery on 28 August, 6.0-inch mesh gillnets were utilized. Similar to the summer season, the objective was to retrieve the drift gillnets after 20 minutes of fishing and an estimated 30 fish had been caught. These nets were fished once per station twice daily at Big Eddy and Middle Mouth starting with Station 1, followed by Station 2. The species, number caught, number retained, mesh size, station, length of gillnet used, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection. During the fall season crew members installed lights on the skiffs for night fishing to illuminate the net and skiff deck. Strobe lights were attached to buoys and hand-held spotlights were also used to illuminate the nets during night fishing operations.

RESULTS

Summer Season

Chinook Salmon

In 2002 the Lower Yukon drift gillnet test fishing project completed its second year of operation in both Big Eddy and Middle Mouth. Examination of each of the first two years of drift gillnet data, showed a higher chinook salmon CPUE in 2001, 620.81 compared to 319.13 in 2002 (Table 1).

The mean drift time at the Big Eddy location was 17.6 minutes per drift and a total drift time of 70.2 minutes per day using 8.25-inch mesh (Appendix A1). A total of 212 chinook salmon were captured by the 8.25-inch gillnet at Big Eddy with a corresponding cumulative CPUE of 374.04 (Table 1). Of the 153 chinook salmon sampled for ASL data, approximately 51% were male. Age-1.4 chinook salmon dominated the sample, comprising 71.1% of the total fish captured. Chinook salmon ages-1.2, -2.4, and -2.3 made up less than 2% of the total sample (Table 2). Chinook salmon ages-1.3 and -1.5 in Big Eddy made up 21.3% and 9.2% of the sample respectively. Approximately 49.0% of the samples were male. Mean length for male chinook was 565.0 mm for age-1.2 (n=2), 743.0 mm for age-1.3 (n=27), 807.0 mm for age-1.4 (n=41), and 905.0 mm for age-1.5 (n=5). Female chinook salmon had mean lengths of 803.0 mm for age-

1.3 (n=5), 862.0 mm for age-1.4 (n=64), and 891.0 mm for age-1.5 (n=9) respectively (Table 2). The midpoint of the chinook salmon run at Big Eddy occurred 21 June (Table 1).

The mean drift time at Middle Mouth was 17.6 minutes per drift and a total of 70.3 minutes per day using 8.25-inch mesh (Appendix A1). A total of 147 chinook salmon were captured at the Middle Mouth location with a corresponding cumulative CPUE of 264.82 (Table 1). Of the 120 chinook salmon sampled for ASL data, approximately 65% were male. Age-1.4 dominated the chinook salmon sample making up 58.3% of the total, followed by age-1.3, which comprised 24.2% of the total. Chinook salmon ages-1.2 and -1.5 were minor occurrences at 6.7% and 10.8% respectively. Mean lengths for male chinook were 569.0mm for age-1.2 (n=8), 743.0 mm for age-1.3 (n=26), 818.0 mm for age-1.4 (n=38), and 889.0 mm for age-1.5 (n=6) respectively. Female chinook salmon mean lengths were 753.0 mm for age-1.3 (n=3), 853.0 mm for age-1.4 (n=32), and 869.0 mm for age-1.5 (n=7) (Table 2). The midpoint of the chinook salmon run at the Middle Mouth test fishery location was 27 June (Table 1).

A total of 359 chinook salmon were caught at the Big Eddy and Middle Mouth drift gillnet test fishery locations, with a corresponding cumulative CPUE of 319.43. The combined midpoint of the chinook salmon run at the Big Eddy and Middle Mouth locations occurred on 18 June (Table 1). In 2002, 56.0% of the total chinook salmon sampled were males (Table 2).

ADF&G worked in cooperation with the U. S. Fish and Wildlife Service (USFWS) to distribute salmon retained by the drift gillnet test fisheries to the residents in the local communities of Emmonak, Alakanuk, and Kotlik for subsistence use. Of the 453 chinook salmon captured in all mesh sizes combined, 99 were released unharmed, 287 were given away for subsistence uses, and 12 chinook salmon were discarded because of no recipients or poor fish condition (Appendix A.2). These numbers reflect chinook salmon caught in both summer chum and chinook salmon gillnet gear (all related mesh sizes), therefore the 453 chinook salmon released, sold, discarded or given to residents is larger than the number of fish caught in the chinook salmon drift gillnet test fisheries alone.

Summer Chum Salmon

The Pilot Station sonar estimates for summer chum salmon passage for 2002 was 1,024,852, this increased from an estimate of 435,224 in 2001. The Lower Yukon summer chum drift gillnet test fishery also increased from a combined CPUE of 1,802.42 in 2001 to 2,489.55 in 2002 (Table 3).

The mean drift time in the Big Eddy location was 17.8 minutes per drift and a total of 71.3 minutes per day using 5.5-inch mesh gillnets for summer chum salmon (Appendix A1). A total of 2,177 summer chum salmon were captured at Big Eddy with a corresponding cumulative CPUE of 4,316 (Table 3). Females comprised 63.8% of the 625 summer chum salmon sampled for ASL data. Age-0.4 and -0.3 summer chum salmon predominated, making up 37.6% and 60.2% of the total sample, respectively. Summer chum salmon age-0.5 and -0.2 made up the remaining 1.8% and 0.5% of the sample. Mean lengths for male summer chum salmon captured at Big Eddy were 565.0 mm for age-0.2 (n=1) 583.0 mm for age-0.3 (n=146), 602.0 mm for age-0.4 (n=77), and 618.0 mm for age -0.5 (n=2) respectively. Mean lengths for female summer chum salmon were 528.0 mm for age-0.2 (n=2), 563.0 mm for age-0.3 (n=230), 577.0 mm for

age-0.4 (n=158), and 596.0 mm for age-0.5 (n=9) respectively (Table 4). The midpoint for the of summer chum salmon run at the Big Eddy drift location was 21 June (Table 3).

The mean drift time at Middle Mouth was 17.3 minutes per drift and a total of 69.1 minutes per day for summer chum salmon using 5.5-inch mesh gillnet (Appendix A1). There were 270 total summer chum captured with a corresponding cumulative CPUE of 663 (Table 3). Females comprised 62.3% of the 167 summer chum salmon sampled for ASL data. Age-0.4 summer chum salmon made up 50.9% of the total sample and age-0.3 made up 46.7% of the total. Age-0.5 and -0.2 summer chum salmon comprised 1.8% and 0.6% of the total sample, respectively. Mean lengths for male summer chum salmon were 582.0 mm for age-0.3 (n=33), 589.0 mm for age -0.4 (n=28), and 595.0 mm -0.5 (n=2) respectively. Female summer chum salmon had mean lengths of 590.0 mm for age-0.2 (n=1), 561.0 mm for age-0.3 (n=45), 579.0 mm for age-0.4 (n=57), and 615.0 for age-0.5 (n=1) (Table 4). The midpoint of the summer chum salmon run at the Middle Mouth location was 24 June (Table 3).

A combined total of 2,447 summer chum salmon were caught at the Big Eddy and Middle Mouth locations with a corresponding cumulative CPUE of 2,306 (Table 3). Approximately 108 summer chum salmon were released unharmed. Local residents utilized 2,408 summer chum salmon and 52 were discarded because of no recipients or poor fish condition (Appendix A.2). These numbers reflect summer chum salmon caught in both summer chum and chinook salmon gillnet gear (all related mesh sizes), therefore the 2,629 fish released, discarded or given to residents is larger than the number of fish caught in the summer chum salmon drift gillnet test fisheries alone. The percentage of released chum (summer and fall) and coho salmon is much lower than that of chinook salmon (Appendix A.2) because chum (summer and fall) and coho salmon tend to run in larger pulses than chinook salmon. During a large pulse, over 100 fish may be caught in a single drift. When these large pulses occur, the net is retrieved as quickly as possible to reduce harvest, and few fish end up being released.

Fall Season

Fall Chum Salmon

In 2002, both the Lower Yukon test fisheries and the Pilot Station sonar indicated the fall chum salmon run was late and most of the run strength was contained within one large late pulse. Significant fall chum salmon catches didn't materialize in Middle Mouth, similar to the summer chum salmon trend.

The mean drift time in the Big Eddy location was 18.3 minutes per set and a total of 73.3 minutes per day using 6.0-inch mesh gillnets (Appendix A1). The Big Eddy drift gillnet test fishery captured 888 fall chum salmon with a corresponding cumulative CPUE of 1,362 (Table 5). Females comprised 64.1% of the 404 fall chum salmon sampled for ASL data. Age-0.3 summer chum salmon made up 59.9% of the total sampled and age-0.4 made up 30.0%. Age -0.5 and –0.2 fall chum salmon comprised 1.7% and 8.4% of the total sampled, respectively. Mean lengths for male fall chum salmon were 584 mm for age-0.2 (n=15), 612 mm for age-0.3 (n=94), 630.0 mm for age-0.4 (n=34), and 650.0 mm for age-0.5 (n=2). Female fall chum salmon had

mean lengths of 582.0 mm for age-0.2 (n=19), 606.0 mm for age-0.3 (n=148), 616.0 mm for age-0.4 (n=87), and 625.0 mm for age-0.5 (n=5) (Table 6). The midpoint of the fall chum salmon run at the Big Eddy location was 11 August (Table 5).

Middle Mouth drift gillnet test fishing had a mean fishing time of 18.3 minutes per set and 73.0 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 120 total fall chum captured with a corresponding cumulative CPUE of 271.8 (Table 5). Females comprised 65.9% of the 91 fall chum salmon sampled for ASL data. Age-0.3 fall chum salmon made up 67.0% of the total sampled and age-0.4 made up 23.1%. Age-0.5 and -0.2 fall chum salmon comprised 2.2% and 7.7% of the total sampled, respectively. Mean lengths for male fall chum salmon were 573.0 mm for age-0.2 (n=3), 605.0 mm for age-0.3 (n=21), 603.0 mm for age-0.4 (n=6), and 610 mm for age-0.5 (n=1). Female fall chum salmon had mean lengths of 578.0 mm for age-0.2 (n=4), 602.0 mm for age-0.3 (n=40), 619.0 mm for age 0.4 (n=15), and 605.0 mm for age-0.5 (n=1) (Table 6). The midpoint of the fall chum salmon run at the Middle Mouth location was 16 August (Table 5).

A combined total of 1,008 fall chum salmon were captured at the Big Eddy and Middle Mouth drift gillnet test fishery locations with a corresponding cumulative CPUE of 817.3 (Table 5). Twenty-three fall chum salmon were released unharmed, none were discarded, and 985 were distributed to local residents (Appendix A.2).

Coho Salmon

The Lower Yukon coho drift gillnet test fishery over the last two years has tracked well with the Pilot Station escapement estimates. In 2001 the Lower Yukon coho drift gillnet fishery had a CPUE of 394.46 and Pilot Station escapement estimate of 143,213 fish. In 2002 there was a slightly lower coho salmon drift gillnet CPUE of 382.16 (Table 7) and a slightly lower escapement estimate of 135,737 fish.

The mean drift time in the Big Eddy location was 18.3 minutes per set and a total of 73.3 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 217 coho salmon captured with a corresponding cumulative CPUE of 403.5 (Table 7). Females comprised approximately 49.0% of the 306 coho salmon sampled for ASL data. Three age classes comprised the coho salmon ASL data with 72.3% of the sample being age-2.1, age-1.1 represented 24.5% followed by age-3.1 (3.2%). Mean lengths for male coho salmon were 579.0 mm for age-1.1 (n=18), 575.0 mm for age-2.1 (n=60), and 585.0 mm for age-3.1 (n=1). Female coho salmon had mean lengths of 589.0 mm for age-1.1 (n=20), 584.0 mm for age-2.1 (n=52), and 596.0 mm for age-3.1 (n=4) (Table 8). The midpoint of the coho salmon run at the Big Eddy drift gillnet location was 16 August (Table 7).

Middle Mouth drift gillnet test fishing had a mean fishing time of 18.3 minutes per set and 73.3 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 208 coho salmon captured with a corresponding cumulative CPUE of 360.82 (Table 7). Female coho salmon made up approximately 49.0% of the 151 coho salmon sampled for ASL data. Most coho salmon were age-2.1 (71.5%), followed by age-1.1 (15.2%), -3.1 (11.9%) and -2.2 (1.3%). Male coho salmon had mean length measurements of 582.0 mm for age-1.1 (n=10), 575.0 mm for age-2.1 (n=52),

550.0 mm for age-2.2 (n=2), and 589.0 mm for age-3.1 (n=9). Female coho salmon had mean lengths of 595.0 mm for age-1.1 (n=13), 579.0 mm for age-2.1 (n=52), and 592.0 mm for age-3.1 (n=9) (Table 8). The midpoint of the coho salmon run at the Middle Mouth drift gillnet location was 17 August (Table 7).

A combined total of 425 coho salmon were captured in the Big Eddy and Middle Mouth drift gillnet test fisheries, which resulted in a corresponding cumulative CPUE of 382.16 (Table 7). Eleven coho salmon were released unharmed, none were discarded, and 414 were distributed to local residents (Appendix A.2).

DISCUSSION

Summer Season

In order to catch fish on each incoming high tide, the Middle Mouth drift gillnet test fishery started the season by fishing 1.5 hours prior to the drift gillnet test fishery conducted at Big Eddy, which was seven hours after the posted high tide at the Yukon River mouth as recorded in the Nushagak tide table. This correction was originally made late in the 2001 season, after lower catch rates were observed at Middle Mouth compared to Big Eddy early in the season. In 2001 the catch rates improved significantly during the fall season in Middle Mouth, so the correction was considered reliable. These improved catch rates indicate that salmon pulses enter south mouth, before middle and north mouth. As in 2001, the 2002 Middle Mouth drift gillnet CPUE for chinook and summer chum salmon was low compared to the Big Eddy drift gillnet CPUE (Tables 2 and 4). Experimental drifts began on 12 June at the Middle Mouth sites to determine if the drifts where fishing too late. Drift gillnets were fished two hours before the regularly scheduled times. Higher catch rates were seen for two consecutive days in the experimental drifts, compared to the regularly scheduled drifts. On 15 June the new drift time of 3.5 hours after the posted high tide were implemented in Middle Mouth.

Chinook Salmon

The Middle Mouth chinook salmon drift gillnet test fishery did not correlate well with other Lower Yukon test fisheries and/or the two day adjusted Pilot Station sonar passage estimates before 15 June (Figures 2, 3 and 4). However, after 15 June the Middle Mouth chinook salmon drift gillnet test fishery trended better with the other Lower Yukon test fisheries and Pilot Station sonar passage estimates (Figures 3 and 4). The Pilot Station sonar project reached the midpoint of the chinook salmon run on 23 June (Table 8). The chinook salmon run midpoint appeared to occur at the Big Eddy test fishery location on 18 June, this was two days before the Middle Mouth midpoint of 20 June (Table 1). The Lower Yukon drift project should reach the midpoint two to three days before the Pilot Station midpoint because of fish travel time between the test fish sites and Pilot Station. When the catch data from the Middle Mouth and Big Eddy drift gillnet test fishing locations were combined, the midpoint of chinook salmon run in the Lower

Yukon River was determined to be 18 June, five days before the Pilot Station sonar midpoint estimate (Tables 1 and 9). The combined set gillnet test fisheries in the Lower Yukon River reached its midpoint on 20 June for chinook salmon (Table 10), three days before the Pilot Station midpoint. The Lower Yukon set gillnet project's daily catch rates generally followed trends in passage estimates recorded for chinook salmon at Pilot Station (Figures 3, 4, and 5).

In 2002, the Lower Yukon drift gillnet test fishery did not appear to be a useful tool for assessing relative abundance of chinook salmon because of difficulties in initial coordination between the correct high tide and drift gillnet fishing times, and the lack of comparable historical data. Hopefully with increased experience, drift gillnet test fishing in Middle Mouth and Big Eddy will result in data that are indicative of the relative chinook salmon abundance. Currently only two years of Lower Yukon chinook drift data are comparable (Table 11 and Figure 6).

Chinook salmon males captured at Big Eddy by drift gillnets compared well in size to fish captured by the Big Eddy set gillnets. The difference between male chinook salmon caught at Big Eddy averaged 11 mm for fish age-1.2 (jacks). Chinook salmon males ages-1.3 and -1.5 caught in the Big Eddy drift gillnets were the same size as those caught in the Big Eddy set gillnets. Chinook salmon males age-1.4 caught in the Big Eddy drift gillnets were 30mm smaller than those caught in the Big Eddy set gillnets. Female chinook salmon caught in the Big Eddy set gillnets had a larger average length than those caught in the Big Eddy drift gillnets. Chinook salmon females caught in set gillnets were 29 mm larger for age-1.3 fish, 4 mm larger for age-1.4 fish, and 21 mm larger for age-1.5 fish. Chinook salmon caught in the Middle Mouth set gillnets were larger, on average than those caught in the Middle Mouth drift gillnets. Male chinook salmon caught in the Middle Mouth set gillnets were; 37 mm larger for age-1.2 fish, 13 mm larger for age-1.3 fish, 20 mm larger for age-1.4 fish, 35 mm larger for age-1.5 fish. Female chinook salmon caught in the Middle Mouth set gillnets were 51 mm larger for age-1.3 fish, 12 mm larger for age-1.4 fish, and 45 mm larger for age-1.5 fish. These differences may be explained by the different mesh sizes used between the set and drift gillnet projects (8.5-inch compared to 8.25-inch), efficiency differences between the set and drift gillnets, the small sample size from the drift compared to the set gillnet fishery (273 from the drift compared to 1,050 from set gillnet catches), or sampling error (Table 1 and 9). More data will need to be collected and analyzed before a definitive trend may be described.

Summer Chum Salmon

In 2002, no set gillnet test fishery targeted summer chum salmon at either the Big Eddy or the Middle Mouth sites, therefore the data collected from the summer chum salmon captured by the 5.5-inch drift gillnets in the Lower Yukon test fisheries can only be compared to the escapement estimate obtained from the Pilot Station sonar project and the 2001 drift data (Table 12 and Figures 7-12). The midpoint of the summer chum run in the Middle Mouth drift gillnet test fishery lagged behind that of the Big Eddy location, occurring on 24 June compared to 21 June (Table 3). The summer chum salmon midpoint occurred on 25 June at the Pilot Station sonar project (Table 9). The midpoint for Middle Mouth occurred one or two days later than would be anticipated from the Pilot Station estimates. The midpoint of the summer chum run at Big Eddy occurred one or two days earlier than would be anticipated. When Middle Mouth and Big Eddy are combined, the midpoint of the summer chum salmon run occurred on 21 June (Table 3),

which was four days before the Pilot Station summer chum salmon midpoint. This deviation from the expected results is thought to be an artifact of sampling error caused by the initial mistiming of the tidal surge in the Middle Mouth area during the summer season.

Summer chum salmon captured in the Big Eddy 5.5-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Male summer chum salmon at the Big Eddy site were 13 mm larger for age-0.4 fish and 23 mm larger for age-0.5 fish. Female summer chum captured in Middle Mouth were 62 mm larger for age-0.2 fish and 2 mm smaller for age-0.3 fish (Table 4).

Fall Season

Fall Chum Salmon

Timing of fall chum salmon caught in the Lower Yukon drift gillnet test fishery was much later in 2001 compared to 2002 (Table 13 and Figure 13). Pulses of fall chum salmon observed in the combined CPUE for Big Eddy and Middle Mouth were also observed in the Pilot Station sonar passage estimates (Figures 14, 15, and 16). The midpoint for the fall chum salmon run occurred on 16 August at the Middle Mouth drift gillnet test fishery and on 11 August at Big Eddy. The combined results from Middle Mouth and Big Eddy show that the midpoint of the fall chum salmon run occurred on 13 August (Table 5). The midpoint of the fall chum salmon run occurred on 12 August at the Pilot Station sonar site. The Middle Mouth midpoint was six or seven days later than expected, when compared to the Pilot Station midpoint, this discrepancy could be due to the comparatively low catch rates in Middle Mouth. Comparing the Big Eddy run timing to Pilot Station is a more relevant comparison since the majority run came through Big Eddy. The Big Eddy midpoint was only one two days later than expected, when compared to the Pilot Station midpoint, this could be due to faster travel time due to low water levels seen in the Yukon River through much of the fall season.

Fall chum salmon captured in the Big Eddy 6.0-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Male fall chum salmon at the Big Eddy site were 27 mm larger for age -0.4 fish and 7 mm larger for age -0.3 fish. Female fall chum salmon captured in Middle Mouth were 5 mm larger for age -0.2 fish and 20 mm for age -0.5 fish (Table 6).

Relative abundance information cannot be calculated from the data collected for fall chum salmon at the Big Eddy and Middle Mouth drift gillnet test fishery locations. However, the correlation of the 2001 and 2002 CPUE data calculated for the Lower Yukon drift gillnet test fisheries and sonar passage estimates at Pilot Station indicate a relationship may be used in the future (Figures 17, 18 and Table 14).

Coho Salmon

Timing of coho salmon caught in the Lower Yukon drift gillnet test fishery was much later in 2001 compared to 2002 (Figure 19 and Table 15). The pulses of coho salmon caught in the Middle Mouth and Big Eddy drift gillnet test fisheries followed the trends observed in the Pilot Station sonar estimates, although not to the same degree as shown by fall chum salmon (Figures 20, 21, and 22). The midpoint for the coho salmon run in the Middle Mouth drift gillnet test fishery occurred on 17 August and on 16 August at Big Eddy. The combined results from both locations show that the midpoint of the coho salmon run occurred on 16 August (Table 7). The midpoint of the coho salmon run, as estimated by the Pilot Station sonar occurred on 20 August (Table 11). This is slightly later than one would anticipate given transit time for salmon between the Lower Yukon test fisheries and the Pilot Station sonar. More data should be collected to verify if the difference in the coho salmon run midpoints at Middle Mouth and at Big Eddy were a trend or an anomaly.

Coho salmon captured in the Big Eddy 6.0-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Female coho salmon at the Big Eddy site were 5 mm larger for age –2.1 fish and 4 mm larger for age –3.1 fish. Female coho salmon captured in Middle Mouth were 6 mm larger for age –1.1 fish (Table 8).

RECOMMENDATIONS

The Lower Yukon drift gillnet project completed two years of full operation in 2002, with summer and fall drifts being performed in both Middle Mouth and Big Eddy. Inconsistencies seen when comparing the catches of the drift gillnet project to other run assessment projects are most likely caused by the short duration (2 years) of the project. No determination had been made yet of how much effect the tidal surge has on fish entering the river. We recommend that the tidal surge timing in the Big Eddy and Middle Mouth locations be verified at the beginning of the 2003 season using experimental drifts.

LITERATURE CITED

Molyneaux, D.B. 1999. Data summary for the Kuskokwim River salmon test fishery at Bethel, 1984-2000. Alaska Department of Fish and Game, Commercial Fisheries Division, Regional Information Report No. 3A99-33, Anchorage.

Table 1. Catch data for the Lower Yukon River chinook salmon drift gillnet test fisheries, 2002.

	Middle Mouth Test Fish			Big Eddy Test Fish			Middle Mouth and Big Eddy Combined		
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
29-May				0	0.00	0.00	0	0.00	0.00
30-May				0	0.00	0.00	0	0.00	0.00
31-May				0	0.00	0.00	0	0.00	0.00
1-Jun				2	3.16	3.16	2	1.58	1.58
2-Jun				0	0.00	3.16	0	0.00	1.58
3-Jun				5	8.11	11.27	5	4.06	5.64
4-Jun				0	0.00	11.27	0	0.00	5.64
5-Jun	0	0.00	0.00	10	14.75	26.02	10	7.38	13.01
6-Jun	5	7.62	7.62	1	1.46	27.48	6	4.54	17.55
7-Jun	4	5.65	13.27	3	4.66	32.14	7	5.16	22.71
8-Jun	1	1.54	14.81	0	0.00	32.14	1	0.77	23.48
9-Jun	0	0.00	14.81	4	6.20	38.34	4	3.10	26.58
10-Jun	4	6.32	21.13	3	1.38	39.72	7	3.85	30.43
11-Jun	1	1.43	22.56	5	6.37	46.09	6	3.90	34.33
12-Jun	1	1.50	24.06	28	40.34	86.43	29	20.92	55.25
13-Jun	21	31.47	55.53	16	54.92	141.35	37	43.19	98.44
14-Jun	11	16.78	72.31	4	6.95	148.30	15	11.87	110.30
15-Jun	7	10.22	82.53	11	15.48	163.78	18	12.85	123.15
16-Jun	9	27.00	109.53	8	12.93	176.71	17	19.97	143.12
17-Jun	2	3.08	112.61	2	3.53	180.24	4	3.31	146.42
18-Jun	3	4.74	117.35	10	30.34	210.58	13	17.54	163.96
19-Jun	6	8.86	126.21	9	14.63	225.21	15	11.75	175.71
20-Jun	5	6.98	133.19	2	5.86	231.07	7	6.42	182.13
21-Jun	7	9.84	143.03	10	14.21	245.28	17	12.03	194.15
22-Jun	14	22.03	165.06	11	16.65	261.93	25	19.34	213.49
23-Jun	23	38.39	203.45	13	20.32	282.25	36	29.36	242.85
24-Jun	8	38.40	241.85	4	12.00	294.25	12	25.20	268.05
25-Jun	3	4.54	246.39	2	3.20	297.45	5	3.87	271.92
26-Jun	3	4.36	250.75	5	6.95	304.40	8	5.66	277.57
27-Jun	0	0.00	250.75	3	8.85	313.25	3	4.43	282.00
28-Jun	1	1.46	252.21	0	0.00	313.25	1	0.73	282.73
29-Jun	3	3.49	255.70	25	35.98	349.23	28	19.74	302.46
30-Jun	0	0.00	255.70	5	7.89	357.12	5	3.95	306.41
1-Jul	1	1.62	257.32	3	4.85	361.97	4	3.24	309.64
2-Jul	2	3.00	260.32	3	4.09	366.06	5	3.55	313.19
3-Jul	0	0.00	260.32	3	4.74	370.80	3	2.37	315.56
4-Jul	1	3.00	263.32	0	0.00	370.80	1	1.50	317.06
5-Jul	0	0.00	263.32	0	0.00	370.80	0	0.00	317.06
6-Jul	0	0.00	263.32	1	1.62	372.42	1	0.81	317.87
7-Jul	0	0.00	263.32	0	0.00	372.42	0	0.00	317.87
8-Jul	0	0.00	263.32	0	0.00	372.42	0	0.00	317.87
9-Jul	1	1.50	264.82	0	0.00	372.42	1	0.75	318.62
10-Jul	0	0.00	264.82	0	0.00	372.42	0	0.00	318.62
11-Jul	0	0.00	264.82	1	1.62	374.04	1	0.81	319.43
12-Jul	0	0.00	264.82	0	0.00	374.04	0	0.00	319.43
13-Jul	0	0.00	264.82	0	0.00	374.04	0	0.00	319.43
14-Jul	0	0.00	264.82	0	0.00	374.04	0	0.00	319.43
15-Jul	0	0.00	264.82	0	0.00	374.04	0	0.00	319.43
Total	147	264.82		212	374.04		359	319.43	

Second and third quartiles in boxes with midpoint in bold.

Table 2. Chinook salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2002.

Big Eddy chinook salmon drift gillnet 8.25" test fish catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)													
			1998 (1.2)		1997 (1.3)		1996 (1.4)		1996 (2.3)		1995 (1.5)		1995 (2.4)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	153	Males	2	1.3	27	17.6	41	26.8	0	0.0	5	3.3	0	0.0	75	49.0
		Females	0	0.0	5	3.3	64	44.8	0	0.0	9	5.9	0	0.0	78	51.0
		Total	2	1.3	32	21.3	105	71.1	0	0.0	14	9.2	0	0.0	153	100.0
Mean Length		Males	565.0		743.0		807.0		0.0		905.0		0.0			
Std. Error			25.0		10.0		9.0		0.0		16.0		0.0			
Mean Length		Females	0.0		803.0		862.0		0.0		891.0		0.0			
Std. Error			0.0		23.0		5.0		0.0		9.0		0.0			

Middle Mouth chinook salmon drift gillnet 8.25" test fish catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)													
			1998 (1.2)		1997 (1.3)		1996 (1.4)		1996 (2.3)		1995 (1.5)		1995 (2.4)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	120	Males	8	6.7	26	21.7	38	31.7	0	0.0	6	5.0	0	0	78	65.0
		Females	0	0.0	3	2.5	32	26.6	0	0.0	7	5.8	0	0	42	35.0
		Total	8	6.7	29	24.2	70	58.3	0	0.0	13	10.8	0	0	120	100.0
Mean Length		Males	569.0		743.0		818.0		0.0		889.0		0.0			
Std. Error			16.0		7.0		8.0		0.0		21.0		0.0			
Mean Length		Females	0.0		753.0		853.0		0.0		869.0		0.0			
Std. Error			0.0		31.0		8.0		0.0		11.0		0.0			

Big Eddy and Middle Mouth chinook salmon drift gillnet 8.25" test fish catch age and sex composition combined, 2002.

			Brood Year and (Age Group)													
			1998 (1.2)		1997 (1.3)		1996 (1.4)		1996 (2.3)		1995 (1.5)		1995 (2.4)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	273	Males	10	3.7	53	19.4	79	28.9	0	0.0	11	4.0	0	0.0	153	56.0
		Females	0	0.0	8	2.9	96	35.2	0	0.0	16	5.9	0	0.0	120	44.0
		Total	10	3.7	61	22.3	175	64.1	0	0.0	27	9.9	0	0.0	273	100.0

Table 3. Catch data for the Lower Yukon River summer chum salmon drift gillnet test fisheries, 2002.

	Middle Mouth Test Fish			Big Eddy Test Fish			M.M. and B.E. Combined		
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
29-May				0	0.00	0	0	0	0
30-May				7	15.14	15.0	7	7.57	7.57
31-May				3	4.51	20	3	2.26	9.83
1-Jun				2	2.97	23	2	1.49	11.31
2-Jun				1	1.50	24	1	.75	12.06
3-Jun				7	7.78	32	7	3.89	15.95
4-Jun				0	0.00	32	0	.00	15.95
5-Jun	0	0.00	0	7	10.72	43	7	5.36	21.31
6-Jun	4	6.08	6.08	13	19.92	63	17	13.00	34.31
7-Jun	1	1.50	7.58	4	6.01	69	5	3.76	38.07
8-Jun	0	0.00	7.58	2	3.00	72	2	1.50	39.57
9-Jun	1	1.54	9.12	3	4.54	76	4	3.04	42.61
10-Jun	0	0.00	9.12	1	0.55	77	1	.28	42.88
11-Jun	2	3.08	12.20	45	51.14	128	47	27.11	69.99
12-Jun	0	0.00	12.20	363	690.07	818	363	345.04	415.03
13-Jun	4	6.19	18.39	22	224.56	1,042	26	115.38	530.40
14-Jun	1	1.54	19.93	24	45.53	1,088	25	23.54	553.94
15-Jun	9	17.42	37.35	19	30.09	1,118	28	23.76	577.69
16-Jun	3	8.85	46.20	70	108.19	1,226	73	58.52	636.21
17-Jun	5	7.62	53.82	11	17.40	1,244	16	12.51	648.72
18-Jun	2	3.08	56.90	126	175.79	1,419	128	89.44	738.16
19-Jun	1	1.5	58.40	100	145.90	1,565	101	73.70	811.86
20-Jun	2	3.00	61.40	96	229.91	1,795	98	116.46	928.31
21-Jun	58	85.21	146.61	340	824.15	2,619	398	454.68	1,382.99
22-Jun	18	36.68	183.29	40	90.01	2,709	58	63.35	1,446.34
23-Jun	48	99.59	282.88	185	297.44	3,007	233	198.52	1,644.85
24-Jun	66	293.87	576.75	114	323.98	3,331	180	308.93	1,953.78
25-Jun	3	4.66	581.41	87	117.00	3,448	90	60.83	2,014.61
26-Jun	2	3.08	584.49	11	14.87	3,463	13	8.98	2,023.58
27-Jun	2	6.08	590.57	8	23.16	3,486	10	14.62	2,038.20
28-Jun	1	1.50	592.07	24	86.55	3,572	25	44.03	2,082.23
29-Jun	16	23.44	615.51	187	303.83	3,876	203	163.64	2,245.86
30-Jun	6	19.00	634.51	48	78.64	3,955	54	48.82	2,294.68
1-Jul	1	1.46	635.97	49	70.80	4,026	50	36.13	2,330.81
2-Jul	1	1.50	637.47	26	52.03	4,078	27	26.77	2,357.58
3-Jul	2	3.00	640.47	90	164.92	4,243	92	83.96	2,441.54
4-Jul	2	6.00	646.47	3	9.10	4,252	5	7.55	2,449.09
5-Jul	2	3.08	649.55	3	4.78	4,256	5	3.93	2,453.02
6-Jul	0	0.00	649.55	15	23.16	4,280	15	11.58	2,464.60
7-Jul	0	0.00	649.55	5	6.12	4,286	5	3.06	2,467.66
8-Jul	1	3.00	652.55	0	0.00	4,286	1	1.50	2,469.16
9-Jul	1	1.50	654.05	6	9.23	4,295	7	5.37	2,474.52
10-Jul	1	3.00	657.05	3	4.74	4,300	4	3.87	2,478.39
11-Jul	0	0.00	657.05	1	1.67	4,301	1	.84	2,479.23
12-Jul	1	1.50	658.55	3	9.73	4,311	4	5.62	2,484.84
13-Jul	1	1.46	660.01	2	3.20	4,314	3	2.33	2,487.17
14-Jul	2	3.08	663.09	1	1.67	4,316	3	2.38	2,489.55
15-Jul	0	0.00	663.09	0	0.00	4,316	0	.00	2,489.55
Total	270	663		2,177	4,316		2,447	2,490	

Second and third quartiles in boxes with midpoint in bold.

Table 4. Summer chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2002.

Big Eddy summer chum salmon 5.5" drift gillnet test fishing catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)									
			1999		1998		1997		1996			
Sample Dates	Sample Size		(0.2)		(0.3)		(0.4)		(0.5)		Total	
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	625	Males	1	0.2	146	23.4	77	12.3	2	0.3	226	36.2
		Females	2	0.3	230	36.8	158	25.3	9	1.5	399	63.8
		Total	3	0.5	376	60.2	235	37.6	11	1.8	625	100.0
Mean Length		Males	565.0		583.0		602.0		618.0			
Std. Error			0.0		2.0		3.0		0.0			
Mean Length		Females	528.0		563.0		577.0		596.0			
Std. Error			0.0		1.0		2.0		9.0			

Middle Mouth summer chum salmon 5.5" drift gillnet test fishing catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)									
			1999		1998		1997		1996			
Sample Dates	Sample Size		(0.2)		(0.3)		(0.4)		(0.5)		Total	
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	167	Males	0	0.0	33	19.8	28	16.8	2	1.2	63	37.7
		Females	1	0.6	45	26.9	57	34.1	1	0.6	104	62.3
		Total	1	0.6	78	46.7	85	50.9	3	1.8	167	100.0
Mean Length		Males	0.0		582.0		589.0		595.0			
Std. Error			0.0		6.0		5.0		0.0			
Mean Length		Females	590.0		561.0		579.0		615.0			
Std. Error			0.0		3.0		3.0		0.0			

Big Eddy and Middle Mouth chinook salmon drift gillnet 5.5" test fish catch age and sex composition combined 2002.

			Brood Year and (Age Group)									
			1999		1998		1997		1996			
	Sample Size		(0.3)		(0.3)		(0.4)		(0.5)		Total	
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	792	Males	1	0.1	179	22.6	105	13.3	4	0.5	289	36.5
		Females	3	0.4	275	34.7	215	27.1	10	1.3	503	63.5
		Total	4	0.5	454	57.3	320	40.4	14	1.8	792	100.0

Table 5. Catch data for the Lower Yukon River fall chum salmon drift gillnet test fisheries, 2002.

	Middle Mouth Test Fishery			Big Eddy Test Fishery			M.M and B.E. Combined		
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
16-Jul	0	0.00	0.00	1	1.6	1.58	1	0.79	0.8
17-Jul	2	2.93	2.93	17	19.1	20.70	19	11.03	11.8
18-Jul	0	0.00	2.93	0	0.0	20.70	0	0.00	11.8
19-Jul	4	6.01	8.94	0	0.0	20.70	4	3.01	14.8
20-Jul	0	0.00	8.94	0	0.0	20.70	0	0.00	14.8
21-Jul	1	1.46	10.40	0	0.0	20.70	1	0.73	15.6
22-Jul	0	0.00	10.40	0	0.0	20.70	0	0.00	15.6
23-Jul	0	0.00	10.40	0	0.0	20.70	0	0.00	15.6
24-Jul	0	0.00	10.40	0	0.0	20.70	0	0.00	15.6
25-Jul	0	0.00	10.40	81	108.6	129.29	81	54.30	69.8
26-Jul	2	3.30	13.70	1	3.2	132.53	3	3.27	73.1
27-Jul	1	1.54	15.24	11	17.0	149.57	12	9.29	82.4
28-Jul	1	1.54	16.78	44	69.0	218.59	45	35.28	117.7
29-Jul	3	9.23	26.01	47	55.1	273.71	50	32.18	149.9
30-Jul	2	3.08	29.09	0	0.0	273.71	2	1.54	151.4
31-Jul	0	0.00	29.09	0	0.0	273.71	0	0.00	151.4
1-Aug	2	3.08	32.17	21	28.1	301.77	23	15.57	167.0
2-Aug	1	1.54	33.71	1	1.5	303.31	2	1.54	168.5
3-Aug	2	3.00	36.71	6	8.7	311.99	8	5.84	174.4
4-Aug	1	1.54	38.25	0	0.0	311.99	1	0.77	175.1
5-Aug	0	0.00	38.25	1	1.6	313.57	1	0.79	175.9
6-Aug	0	0.00	38.25	0	0.0	313.57	0	0.00	175.9
7-Aug	1	3.00	41.25	26	34.7	348.22	27	18.83	194.7
8-Aug	0	0.00	41.25	25	33.1	381.31	25	16.55	211.3
9-Aug	5	7.50	48.75	127	183.9	565.24	132	95.72	307.0
10-Aug	1	1.50	50.25	77	98.3	663.50	78	49.88	356.9
11-Aug	5	7.78	58.03	12	31.0	694.47	17	19.38	376.3
12-Aug	3	4.39	62.42	28	41.9	736.35	31	23.14	399.4
13-Aug	6	18.63	81.05	15	23.3	759.60	21	20.94	420.3
14-Aug	2	3.25	84.30	7	10.9	770.50	9	7.08	427.4
15-Aug	0	0.00	84.30	26	37.3	807.79	26	18.65	446.0
16-Aug	31	121.14	205.44	242	448.3	1256.08	273	284.72	730.8
17-Aug	23	32.41	237.85	34	44.5	1300.54	57	38.44	769.2
18-Aug	8	13.45	251.30	8	10.7	1311.21	16	12.06	781.3
19-Aug	5	7.03	258.33	4	6.3	1317.53	9	6.68	787.9
20-Aug	3	5.70	264.03	0	0.0	1317.53	3	2.85	790.8
21-Aug	2	3.04	267.07	4	8.3	1325.81	6	5.66	796.4
22-Aug	2	3.18	270.25	15	22.9	1348.71	17	13.04	809.5
23-Aug	1	1.50	271.75	2	6.4	1355.11	3	3.95	813.4
24-Aug	0	0.00	271.75	0	0.0	1355.11	0	0.00	813.4
25-Aug	0	0.00	271.75	0	0.0	1355.11	0	0.00	813.4
26-Aug	0	0.00	271.75	0	0.0	1355.11	0	0.00	813.4
27-Aug	0	0.00	271.75	1	1.6	1356.69	1	0.79	814.2
28-Aug	0	0.00	271.75	4	6.2	1362.84	4	3.08	817.3
Total	120	271.8		888	1362.8		1,008	817.3	

Second and third quartiles in boxes with midpoint in bold.

Table 6. Fall chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2002.

Big Eddy fall chum salmon 6.0 "drift gillnet test fishing catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)									
			1999 (0.2)		1998 (0.3)		1997 (0.4)		1996 (0.5)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	404	Males	15	3.7	94	23.3	34	8.4	2	0.5	145	35.9
		Females	19	4.7	148	36.6	87	21.6	5	1.2	259	64.1
		Total	34	8.4	242	59.9	121	30.0	7	1.7	404	100.0
Mean Length		Males	584.0		612.0		630.0		650.0			
Std. Error			5.0		3.0		5.0		0.0			
Mean Length		Females	582.0		606.0		616.0		625.0			
Std. Error			5.0		2.0		3.0		6.0			

Middle Mouth fall chum salmon 6.0" drift gillnet test fishing catch age and sex composition by stratum, and mean length (mm), 2002.

			Brood Year and (Age Group)									
			1999 (0.2)		1998 (0.3)		1997 (0.4)		1996 (0.5)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	91	Males	3	3.3	21	23.1	6	6.6	1	1.1	31	34.1
		Females	4	4.4	40	43.9	15	16.5	1	1.1	60	65.9
		Total	7	7.7	61	67.0	21	23.1	2	2.2	91	100.0
Mean Length		Males	573.0		605.0		603.0		610.0			
Std. Error			16.0		7.0		16.0		0.0			
Mean Length		Females	578.0		602.0		619.0		605.0			
Std. Error			10.0		5.0		6.0		0.0			

Middle Mouth and Big Eddy fall chum salmon 6.0" drift gillnet test fishing catch age and sex composition combined,2002.

			Brood Year and (Age Group)									
			1999 (0.2)		1998 (0.3)		1997 (0.4)		1996 (0.5)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	495	Males	18	3.6	115	23.2	40	8.1	3	0.6	176	35.6
		Females	23	4.6	188	38.0	102	20.6	6	1.2	319	64.4
		Total	41	8.3	303	61.2	142	28.7	9	1.8	495	100.0

Table 7. Catch data for the Lower Yukon River coho salmon drift gillnet test fisheries, 2002.

	Middle Mouth Test Fishery			Big Eddy Test Fishery			M.M. and B.E. Combined		
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
16-Jul	0	0.0	0.00	0	0.00	0.00	0	0.00	0.00
17-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
18-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
19-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
20-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
21-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
22-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
23-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
24-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
25-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
26-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
27-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
28-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
29-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
30-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
31-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
1-Aug	0	0.00	0.00	3	4.07	4.07	3	2.04	2.04
2-Aug	0	0.00	0.00	0	0.00	4.07	0	0.00	2.04
3-Aug	0	0.00	0.00	3	4.40	8.47	3	2.20	4.24
4-Aug	0	0.00	0.00	0	0.00	8.47	0	0.00	4.24
5-Aug	1	1.43	1.43	0	0.00	8.47	1	0.72	4.95
6-Aug	0	0.00	1.43	0	0.00	8.47	0	0.00	4.95
7-Aug	3	4.62	6.05	5	6.44	14.91	8	5.53	10.48
8-Aug	0	0.00	6.05	8	10.35	25.26	8	5.18	15.66
9-Aug	3	4.50	10.55	19	28.89	54.15	22	16.70	32.35
10-Aug	0	0.00	10.55	15	19.12	73.27	15	9.56	41.91
11-Aug	24	36.92	47.47	6	15.37	88.64	30	26.15	68.06
12-Aug	6	8.97	56.44	14	22.18	110.82	20	15.58	83.63
13-Aug	9	27.00	83.44	11	16.84	127.66	20	21.92	105.55
14-Aug	3	4.86	88.30	4	5.81	133.47	7	5.34	110.89
15-Aug	1	1.58	89.88	27	38.45	171.92	28	20.02	130.90
16-Aug	11	37.71	127.59	63	168.01	339.93	74	102.86	233.76
17-Aug	52	73.08	200.67	11	18.88	358.81	63	45.98	279.74
18-Aug	31	53.70	254.37	10	14.40	373.21	41	34.05	313.79
19-Aug	23	34.44	288.81	7	11.05	384.26	30	22.75	336.54
20-Aug	9	19.74	308.55	1	1.43	385.69	10	10.59	347.12
21-Aug	4	6.04	314.59	1	1.58	387.27	5	3.81	350.93
22-Aug	18	26.38	340.97	6	9.36	396.63	24	17.87	368.80
23-Aug	4	6.08	347.05	0	0.00	396.63	4	3.04	371.84
24-Aug	2	3.00	350.05	1	3.24	399.87	3	3.12	374.96
25-Aug	1	1.54	351.59	0	0.00	399.87	1	0.77	375.73
26-Aug	0	0.00	351.59	1	2.05	401.92	1	1.03	376.76
27-Aug	0	0.00	351.59	1	1.58	403.50	1	0.79	377.55
28-Aug	3	9.23	360.82	0	0.00	403.50	3	4.62	382.16
Total	208	360.82		217	403.50		425	382.16	

Second and third quartiles in boxes with midpoint in bold.

Table 8. Coho salmon age, sex and length data for the Lower Yukon drift gillnet test fishery, 2002.

Big Eddy coho salmon 6.0" drift gillnet test fishing catch age and sex composition, and mean length (mm), 2002.

			Brood Year and (Age Group)									
			1999 (1.1)		1998 (2.1)		1997 (2.2)		1997 (3.1)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	155	Males	18	11.6	60	38.7	0	0.0	1	0.6	79	51.0
		Females	20	12.9	52	33.6	0	0.0	4	2.6	76	49.0
		Total	38	24.5	112	72.3	0	0.0	5	3.2	155	100.0
Mean Length		Males	579.0		575.0		0.0		585.0			
Std. Error			7.0		4.0		0.0		0.0			
Mean Length		Females	589.0		584.0		0.0		596.0			
Std. Error			6.0		4.0		0.0		10.0			

Middle Mouth coho salmon 6.0" drift gillnet test fishing age and sex composition by stratum, and length (mm), 2002.

			Brood Year and (Age Group)									
			1999 (1.1)		1998 (2.1)		1997 (2.2)		1997 (3.1)		Total	
	Sample Size		No.		No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	151	Males	10	6.6	56	37.1	2	1.3	9	6.0	77	51.0
		Females	13	8.6	52	34.4	0	0.0	9	5.9	74	49.0
		Total	23	15.2	108	71.5	2	1.3	18	11.9	151	100.0
Mean Length		Males	582.0		575.0		550.0		589.0			
Std. Error			9.0		4.0		0.0		9.0			
Mean Length		Females	595.0		579.0		0.0		592.0			
Std. Error			8.0		4.0		0.0		5.0			

Big Eddy and Middle Mouth coho salmon 6.0" drift gillnet test fishing age and sex composition combined, 2002.

			1999 (1.1)		1998 (2.1)		1997 (2.2)		1997 (3.1)		Total	
	Sample Size		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	306	Males	28	9.2	116	37.9	2	0.7	10	3.3	156	51.0
		Females	33	10.8	104	34.0	0	0.0	13	4.2	150	49.0
		Total	61	19.9	220	71.9	2	0.7	23	7.5	306	100.0

Table 9. Pilot Station summer season sonar passage estimates, 2002.

	Chinook			Summer Chum		
Date	Daily	Cum.	prop.	Daily	Cum.	prop.
29-May						
30-May						
31-May						
1-Jun						
2-Jun						
3-Jun						
4-Jun						
5-Jun						
6-Jun	1,047	1,047	0.01	3,050	3,050	0.00
7-Jun	1,351	2,398	0.01	2,838	5,888	0.01
8-Jun	1,299	3,697	0.02	2,847	8,735	0.01
9-Jun	1,510	5,207	0.03	4,422	13,157	0.01
10-Jun	1,003	6,210	0.03	2,780	15,937	0.02
11-Jun	1,784	7,994	0.04	2,985	18,922	0.02
12-Jun	2,692	10,686	0.06	4,300	23,222	0.02
13-Jun	1,068	11,754	0.06	2,971	26,193	0.03
14-Jun	5,322	17,076	0.09	14,362	40,555	0.04
15-Jun	17,856	34,932	0.19	49,892	90,447	0.09
16-Jun	10,171	45103	0.25	44,969	135,416	0.13
17-Jun	4,219	49322	0.27	20,193	155,609	0.15
18-Jun	9,904	59226	0.32	44,382	199,991	0.20
19-Jun	5,600	64826	0.35	26,289	226,280	0.22
20-Jun	1,833	66659	0.36	24,463	250,743	0.24
21-Jun	7,190	73,849	0.40	26,295	277,038	0.27
22-Jun	8,108	81,957	0.45	42,367	319,405	0.31
23-Jun	11,785	93,742	0.51	76,873	396,278	0.39
24-Jun	16,491	110,233	0.60	71,340	467,618	0.46
25-Jun	11,118	121,351	0.66	51,125	518,743	0.51
26-Jun	16,463	137,814	0.75	72,901	591,644	0.58
27-Jun	3,561	141,375	0.77	62,902	654,546	0.64
28-Jun	1,346	142,721	0.78	45,843	700,389	0.68
29-Jun	2,541	145,262	0.79	13,782	714,171	0.70
30-Jun	1,439	146,701	0.80	8,055	722,226	0.70
1-Jul	2,917	149,618	0.82	36,089	758,315	0.74
2-Jul	4,196	153,814	0.84	54,975	813,290	0.79
3-Jul	6,655	160,469	0.87	28,759	842,049	0.82
4-Jul	7,594	168,063	0.92	11,414	853,463	0.83
5-Jul	2,624	170,687	0.93	32,481	885,944	0.86
6-Jul	3,801	174,488	0.95	24,615	910,559	0.89
7-Jul	3,218	177,706	0.97	11,918	922,477	0.90
8-Jul	439	178,145	0.97	14,439	936,916	0.91
9-Jul	122	178,267	0.97	17,295	954,211	0.93
10-Jul	448	178,715	0.97	16,385	970,596	0.95
11-Jul	273	178,988	0.98	14,293	984,889	0.96
12-Jul	85	179,073	0.98	15,446	1,000,335	0.98
13-Jul	69	179,142	0.98	4,978	1,005,313	0.98
14-Jul	1,747	180,889	0.99	2,435	1,007,748	0.98
15-Jul	1,725	182,614	0.99	3,720	1,011,468	0.99
16-Jul	891	183,505	1.00	4,544	1,016,012	0.99
17-Jul	0	183,505	1.00	3,641	1,019,653	0.99
18-Jul	46	183,551	1.00	5,199	1,024,852	1.00
Total	183,551			1,024,852		

Second and Third quartiles in boxes with midpoint in bold

Table 10. Catch Data for the Lower Yukon River chinook salmon 8.5" set gillnet test fisheries, 2002.

Date	Daily Catch	Daily CPUE	Cum. CPUE
29-May			
30-May			
31-May			
1-Jun	3	0.06	0.06
2-Jun	11	0.23	0.29
3-Jun	6	0.13	0.42
4-Jun	7	0.15	0.57
5-Jun	31	0.32	0.89
6-Jun	43	0.45	1.34
7-Jun	27	0.28	1.62
8-Jun	23	0.24	1.86
9-Jun	43	0.45	2.31
10-Jun	40	0.42	2.73
11-Jun	25	0.26	2.99
12-Jun	70	0.73	3.72
13-Jun	138	1.44	5.16
14-Jun	40	0.42	5.58
15-Jun	79	0.82	6.40
16-Jun	123	1.28	7.68
17-Jun	65	0.68	8.36
18-Jun	92	0.96	9.32
19-Jun	50	0.52	9.84
20-Jun	127	1.32	11.16
21-Jun	125	1.30	12.46
22-Jun	106	1.10	13.56
23-Jun	100	1.04	14.60
24-Jun	113	1.18	15.78
25-Jun	60	0.63	16.41
26-Jun	44	0.46	16.87
27-Jun	24	0.25	17.12
28-Jun	10	0.10	17.22
29-Jun	82	0.85	18.07
30-Jun	31	0.32	18.39
1-Jul	16	0.17	18.56
2-Jul	17	0.18	18.74
3-Jul	34	0.35	19.09
4-Jul	22	0.23	19.32
5-Jul	21	0.22	19.54
6-Jul	19	0.20	19.74
7-Jul	15	0.16	19.90
8-Jul	12	0.13	20.03
9-Jul	3	0.03	20.06
10-Jul	8	0.08	20.14
11-Jul	2	0.02	20.16
12-Jul	4	0.04	20.20
13-Jul	2	0.02	20.22
14-Jul	1	0.01	20.23
15-Jul	0	0.00	20.23
Total	1,914	20.2	20.23

Reported numbers are combined catch from all Lower Yukon set gillnet test f

Table 11. Pilot Station fall season sonar passage estimates, 2002.

	Fall Chum		Coho	
Date	Daily	Cum.	Daily	Cum.
16-Jul				
17-Jul				
18-Jul				
19-Jul	9,990	9,990	0	0
20-Jul	6,624	16,614	0	0
21-Jul	10,506	27,120	0	0
22-Jul	4,675	31,795	0	0
23-Jul	2,096	33,891	0	0
24-Jul	1,729	35,620	0	0
25-Jul	1,771	37,391	0	0
26-Jul	3,205	40,596	0	0
27-Jul	19,810	60,406	0	0
28-Jul	24,044	84,450	85	85
29-Jul	14,336	98,786	26	111
30-Jul	23,503	122,289	0	111
31-Jul	7,603	129,892	0	111
1-Aug	900	130,792	44	155
2-Aug	550	131,342	39	194
3-Aug	6,503	137,845	126	320
4-Aug	4,200	142,045	897	1,217
5-Aug	2,707	144,752	1,487	2,704
6-Aug	400	145,152	426	3,130
7-Aug	541	145,693	560	3,690
8-Aug	567	146,260	592	4,282
9-Aug	2,884	149,144	1,254	5,536
10-Aug	5,401	154,545	2,359	7,895
11-Aug	16,019	170,564	3,231	11,126
12-Aug	16,893	187,457	5,202	16,328
13-Aug	11,384	198,841	3,564	19,892
14-Aug	12,662	211,503	3,391	23,283
15-Aug	7,425	218,928	5,727	29,010
16-Aug	3,835	222,763	4,429	33,439
17-Aug	6,141	228,904	2,950	36,389
18-Aug	58,307	287,211	2,897	39,286
19-Aug	33,878	321,089	20,191	59,477
20-Aug	9,332	330,421	11,015	70,492
21-Aug	8,033	338,454	8,037	78,529
22-Aug	2,720	341,174	8,498	87,027
23-Aug	1,174	342,348	6,147	93,174
24-Aug	4,315	346,663	6,638	99,812
25-Aug	4,276	350,939	5,005	104,817
26-Aug	2,926	353,865	7,033	111,850
27-Aug	961	354,826	5,304	117,154
28-Aug	759	355,585	3,927	121,081
29-Aug	916	356,501	4,877	125,958
30-Aug	994	357,495	4,980	130,938
31-Aug	2,070	359,565	4,799	135,737
Total	359,565		135,737	

Second and third quartiles in boxes with midpoint in bold.

Table 12. Catch data for the 2001 and 2002 Lower Yukon River chinook salmon drift gillnet test fisheries.

	2001 M. M. and B. E.Combined			2002 M.M. and B. E. Combined			
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Date
29-May				0	0.00	0.00	29-May
30-May				0	0.00	0.00	30-May
31-May				0	0.00	0.00	31-May
1-Jun				2	1.58	1.58	1-Jun
2-Jun				0	0.00	1.58	2-Jun
3-Jun				5	4.06	5.64	3-Jun
4-Jun				0	0.00	5.64	4-Jun
5-Jun				10	7.38	13.01	5-Jun
6-Jun				6	4.54	17.55	6-Jun
7-Jun				7	5.16	22.71	7-Jun
8-Jun	2	1.58	1.58	1	0.77	23.48	8-Jun
9-Jun	6	4.66	6.24	4	3.10	26.58	9-Jun
10-Jun	1	0.79	7.03	7	3.85	30.43	10-Jun
11-Jun	5	3.86	10.89	6	3.90	34.33	11-Jun
12-Jun	21	15.22	26.10	29	20.92	55.25	12-Jun
13-Jun	49	38.30	64.40	37	43.19	98.44	13-Jun
14-Jun	49	107.90	172.29	15	11.87	110.30	14-Jun
15-Jun	22	43.54	215.83	18	12.85	123.15	15-Jun
16-Jun	39	29.38	245.20	17	19.97	143.12	16-Jun
17-Jun	1	0.88	246.08	4	3.31	146.42	17-Jun
18-Jun	0	0.00	246.08	13	17.54	163.96	18-Jun
19-Jun	7	5.00	251.08	15	11.75	175.71	19-Jun
20-Jun	4	3.29	254.37	7	6.42	182.13	20-Jun
21-Jun	48	50.21	304.58	17	12.03	194.15	21-Jun
22-Jun	31	25.43	330.01	25	19.34	213.49	22-Jun
23-Jun	46	65.19	395.20	36	29.36	242.85	23-Jun
24-Jun	23	72.78	467.98	12	25.20	268.05	24-Jun
25-Jun	41	36.42	504.40	5	3.87	271.92	25-Jun
26-Jun	38	27.55	531.95	8	5.66	277.57	26-Jun
27-Jun	38	27.14	559.09	3	4.43	282.00	27-Jun
28-Jun	27	21.57	580.66	1	0.73	282.73	28-Jun
29-Jun	10	13.64	594.30	28	19.74	302.46	29-Jun
30-Jun	4	3.32	597.61	5	3.95	306.41	30-Jun
1-Jul	4	2.29	599.90	4	3.24	309.64	1-Jul
2-Jul	1	0.65	600.55	5	3.55	313.19	2-Jul
3-Jul	1	0.79	601.34	3	2.37	315.56	3-Jul
4-Jul	3	2.14	603.48	1	1.50	317.06	4-Jul
5-Jul	10	7.43	610.91	0	0.00	317.06	5-Jul
6-Jul	4	3.12	614.03	1	0.81	317.87	6-Jul
7-Jul	0	0.00	614.03	0	0.00	317.87	7-Jul
8-Jul	3	2.33	616.36	0	0.00	317.87	8-Jul
9-Jul	5	3.66	620.02	1	0.75	318.62	9-Jul
10-Jul	0	0.00	620.02	0	0.00	318.62	10-Jul
11-Jul	1	0.79	620.81	1	0.81	319.43	11-Jul
12-Jul	0	0.00	620.81	0	0.00	319.43	12-Jul
13-Jul	0	0.00	620.81	0	0.00	319.43	13-Jul
14-Jul	0	0.00	620.81	0	0.00	319.43	14-Jul
15-Jul	0	0.00	620.81	0	0.00	319.43	15-Jul
Total	544	620.81		359	319.43		

Second and Third quartiles in boxes with midpoint in bold

Table 13. Catch data for the 2001 and 2002 Lower Yukon summer chum salmon drift gillnet test fisheries.

	2001 M.M. and B. E. Combined			2002 M. M. and B. E. Combined			
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Date
29-May				0	0.00	0.00	29-May
30-May				7	7.57	7.57	30-May
31-May				3	2.26	9.83	31-May
1-Jun				2	1.49	11.31	1-Jun
2-Jun				1	0.75	12.06	2-Jun
3-Jun				7	3.89	15.95	3-Jun
4-Jun				0	0.00	15.95	4-Jun
5-Jun				7	5.36	21.31	5-Jun
6-Jun				17	13.00	34.31	6-Jun
7-Jun				5	3.76	38.07	7-Jun
8-Jun	0	0.00	0.00	2	1.50	39.57	8-Jun
9-Jun	1	0.84	0.84	4	3.04	42.61	9-Jun
10-Jun	0	0.00	0.84	1	0.28	42.88	10-Jun
11-Jun	0	0.00	0.84	47	27.11	69.99	11-Jun
12-Jun	3	2.31	3.15	363	345.04	415.03	12-Jun
13-Jun	42	34.81	37.95	26	115.38	530.40	13-Jun
14-Jun	163	200.72	238.67	25	23.54	553.94	14-Jun
15-Jun	41	86.87	325.54	28	23.76	577.69	15-Jun
16-Jun	43	40.92	366.46	73	58.52	636.21	16-Jun
17-Jun	41	32.84	399.30	16	12.51	648.72	17-Jun
18-Jun	25	16.47	415.76	128	89.44	738.16	18-Jun
19-Jun	9	8.83	424.59	101	73.70	811.86	19-Jun
20-Jun	10	8.24	432.83	98	116.46	928.31	20-Jun
21-Jun	83	77.92	510.75	398	454.68	1382.99	21-Jun
22-Jun	83	64.19	574.94	58	63.35	1446.34	22-Jun
23-Jun	126	155.53	730.47	233	198.52	1644.85	23-Jun
24-Jun	68	241.58	972.05	180	308.93	1953.78	24-Jun
25-Jun	200	139.02	1111.07	90	60.83	2014.61	25-Jun
26-Jun	126	113.93	1224.99	13	8.98	2023.58	26-Jun
27-Jun	214	222.35	1447.34	10	14.62	2038.20	27-Jun
28-Jun	159	117.57	1564.91	25	44.03	2082.23	28-Jun
29-Jun	16	13.24	1578.15	203	163.64	2245.86	29-Jun
30-Jun	86	61.47	1639.62	54	48.82	2294.68	30-Jun
1-Jul	27	21.59	1661.20	50	36.13	2330.81	1-Jul
2-Jul	12	9.08	1670.28	27	26.77	2357.58	2-Jul
3-Jul	21	16.27	1686.54	92	83.96	2441.54	3-Jul
4-Jul	37	27.59	1714.13	5	7.55	2449.09	4-Jul
5-Jul	28	23.57	1737.70	5	3.93	2453.02	5-Jul
6-Jul	13	9.40	1747.10	15	11.58	2464.60	6-Jul
7-Jul	17	24.40	1771.49	5	3.06	2467.66	7-Jul
8-Jul	26	19.12	1790.61	1	1.50	2469.16	8-Jul
9-Jul	10	7.15	1797.76	7	5.37	2474.52	9-Jul
10-Jul	3	2.37	1800.13	4	3.87	2478.39	10-Jul
11-Jul	1	0.75	1800.88	1	0.84	2479.23	11-Jul
12-Jul	1	1.54	1802.42	4	5.62	2484.84	12-Jul
13-Jul	0	0.00	1802.42	3	2.33	2487.17	13-Jul
14-Jul	0	0.00	1802.42	3	2.38	2489.55	14-Jul
15-Jul	0	0.00	1802.42	0	0.00	2489.55	15-Jul
	1,735	1802.42		2,447	2489.55		

Second and Third quartiles in boxes with midpoint in bold

Table 14. Catch data for the 2001 and 2002 Lower Yukon fall chum salmon drift gillnet test fisheries.

	2001 M. M. and B. E. Combined			2002 M. M. and B. E. Combined			
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Date
16-Jul	29	21.28	21.28	1	0.79	0.79	16-Jul
17-Jul	192	149.66	170.94	19	11.03	11.82	17-Jul
18-Jul	183	139.21	310.14	0	0.00	11.82	18-Jul
19-Jul	38	27.38	337.52	4	3.01	14.82	19-Jul
20-Jul	2	1.50	339.02	0	0.00	14.82	20-Jul
21-Jul	4	3.00	342.02	1	0.73	15.55	21-Jul
22-Jul	8	6.31	348.32	0	0.00	15.55	22-Jul
23-Jul	35	50.64	398.96	0	0.00	15.55	23-Jul
24-Jul	83	64.87	463.83	0	0.00	15.55	24-Jul
25-Jul	38	31.44	495.27	81	54.30	69.85	25-Jul
26-Jul	6	4.25	499.52	3	3.27	73.12	26-Jul
27-Jul	15	11.33	510.85	12	9.29	82.41	27-Jul
28-Jul	6	4.62	515.46	45	35.28	117.69	28-Jul
29-Jul	1	0.77	516.23	50	32.18	149.86	29-Jul
30-Jul	10	7.54	523.77	2	1.54	151.40	30-Jul
31-Jul	119	95.32	619.09	0	0.00	151.40	31-Jul
1-Aug	55	43.12	662.20	23	15.57	166.97	1-Aug
2-Aug	166	114.07	776.27	2	1.54	168.51	2-Aug
3-Aug	149	101.86	878.13	8	5.84	174.35	3-Aug
4-Aug	30	22.58	900.71	1	0.77	175.12	4-Aug
5-Aug	10	7.00	907.70	1	0.79	175.91	5-Aug
6-Aug	87	100.73	1008.43	0	0.00	175.91	6-Aug
7-Aug	225	136.78	1145.20	27	18.10	194.01	7-Aug
8-Aug	42	32.57	1177.77	25	16.55	210.55	8-Aug
9-Aug	28	19.44	1197.21	132	95.72	306.27	9-Aug
10-Aug	20	16.23	1213.43	78	49.88	356.15	10-Aug
11-Aug	4	2.91	1216.34	17	19.38	375.52	11-Aug
12-Aug	35	26.21	1242.55	31	23.14	398.66	12-Aug
13-Aug	39	27.06	1269.61	21	20.94	419.60	13-Aug
14-Aug	24	17.26	1286.87	9	7.08	426.67	14-Aug
15-Aug	15	11.23	1298.10	26	18.65	445.32	15-Aug
16-Aug	5	3.76	1301.86	273	284.72	730.03	16-Aug
17-Aug	2	1.56	1303.42	57	38.44	768.47	17-Aug
18-Aug	3	2.29	1305.71	16	12.06	780.53	18-Aug
19-Aug	0	0.00	1305.71	9	6.68	787.20	19-Aug
20-Aug	2	2.33	1308.04	3	2.85	790.05	20-Aug
21-Aug	19	13.83	1321.87	6	5.66	795.71	21-Aug
22-Aug	5	3.75	1325.62	17	13.04	808.75	22-Aug
23-Aug	0	0.00	1325.62	3	3.95	812.70	23-Aug
24-Aug	1	0.77	1326.39	0	0.00	812.70	24-Aug
25-Aug	0	0.00	1326.39	0	0.00	812.70	25-Aug
26-Aug	0	0.00	1326.39	0	0.00	812.70	26-Aug
27-Aug	0	0.00	1326.39	1	0.79	813.49	27-Aug
28-Aug	0	0.00	1326.39	4	3.08	816.57	28-Aug
	1,735	1326.39		1,008	816.57		

Second and Third quartiles in boxes with midpoint in bold

Table 15. Catch data for the 2001 and 2002 Lower Yukon coho salmon drift gillnet test fisheries.

	2001 M.M. and B.E. Combined			2002 M.M. and B.E. Combined			
Date	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Date
16-Jul	0	0.00	0.00	0	0.00	0.00	16-Jul
17-Jul	0	0.00	0.00	0	0.00	0.00	17-Jul
18-Jul	0	0.00	0.00	0	0.00	0.00	18-Jul
19-Jul	0	0.00	0.00	0	0.00	0.00	19-Jul
20-Jul	0	0.00	0.00	0	0.00	0.00	20-Jul
21-Jul	0	0.00	0.00	0	0.00	0.00	21-Jul
22-Jul	0	0.00	0.00	0	0.00	0.00	22-Jul
23-Jul	1	1.50	1.50	0	0.00	0.00	23-Jul
24-Jul	1	0.88	2.38	0	0.00	0.00	24-Jul
25-Jul	0	0.00	2.38	0	0.00	0.00	25-Jul
26-Jul	0	0.00	2.38	0	0.00	0.00	26-Jul
27-Jul	1	0.75	3.13	0	0.00	0.00	27-Jul
28-Jul	0	0.00	3.13	0	0.00	0.00	28-Jul
29-Jul	0	0.00	3.13	0	0.00	0.00	29-Jul
30-Jul	1	0.75	3.88	0	0.00	0.00	30-Jul
31-Jul	4	3.05	6.93	0	0.00	0.00	31-Jul
1-Aug	0	0.00	6.93	3	2.04	2.04	1-Aug
2-Aug	7	4.86	11.79	0	0.00	2.04	2-Aug
3-Aug	19	13.29	25.07	3	2.20	4.24	3-Aug
4-Aug	13	9.85	34.92	0	0.00	4.24	4-Aug
5-Aug	8	5.70	40.62	1	0.72	4.95	5-Aug
6-Aug	10	18.03	58.65	0	0.00	4.95	6-Aug
7-Aug	70	50.38	109.02	8	5.53	10.48	7-Aug
8-Aug	26	21.82	130.84	8	5.18	15.66	8-Aug
9-Aug	15	14.08	144.92	22	16.70	32.35	9-Aug
10-Aug	46	27.75	172.67	15	9.56	41.91	10-Aug
11-Aug	21	15.41	188.07	30	26.15	68.06	11-Aug
12-Aug	38	28.61	216.68	20	15.58	83.63	12-Aug
13-Aug	43	31.52	248.20	20	21.92	105.55	13-Aug
14-Aug	39	28.23	276.42	7	5.34	110.89	14-Aug
15-Aug	46	34.28	310.70	28	20.02	130.90	15-Aug
16-Aug	18	13.58	324.28	74	102.86	233.76	16-Aug
17-Aug	14	11.14	335.41	63	45.98	279.74	17-Aug
18-Aug	12	9.23	344.64	41	34.05	313.79	18-Aug
19-Aug	18	15.60	360.24	30	22.75	336.54	19-Aug
20-Aug	3	2.35	362.59	10	10.59	347.12	20-Aug
21-Aug	16	11.27	373.86	5	3.81	350.93	21-Aug
22-Aug	19	14.50	388.36	24	17.87	368.80	22-Aug
23-Aug	2	1.54	389.90	4	3.04	371.84	23-Aug
24-Aug	3	2.29	392.19	3	3.12	374.96	24-Aug
25-Aug	0	0.00	392.19	1	0.77	375.73	25-Aug
26-Aug	2	1.47	393.65	1	1.03	376.76	26-Aug
27-Aug	0	0.00	393.65	1	0.79	377.55	27-Aug
28-Aug	3	0.81	394.46	3	4.62	382.16	28-Aug
	519	394.46		425	382.16		

Second and Third quartiles in boxes with midpoint in bold

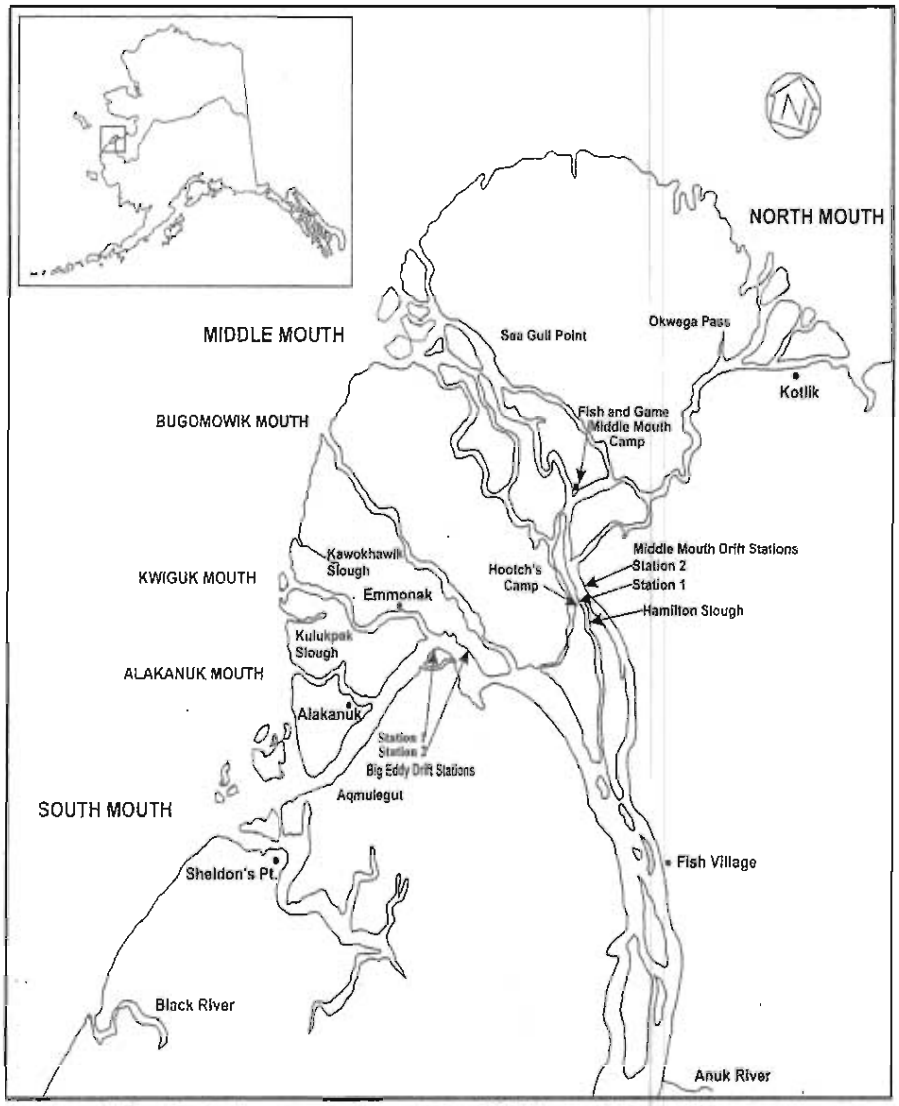

Figure 1. Drift stations for the cooperative Lower Yukon drift gillnet test fishery, 2002.

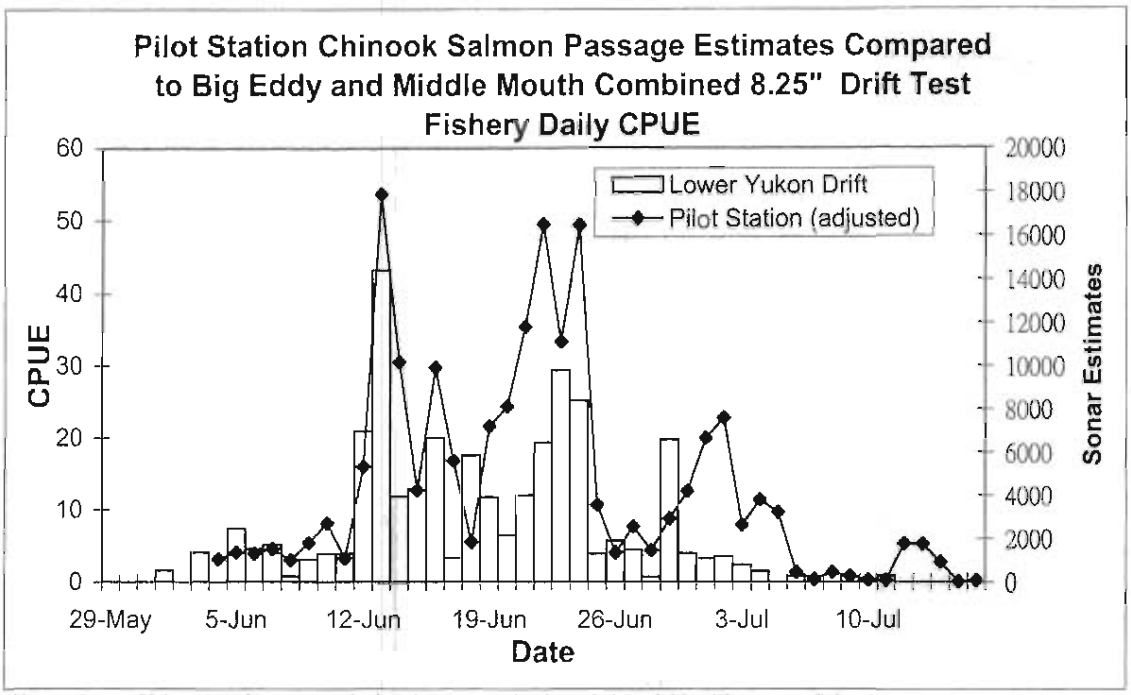

Figure 2. Chinook salmon caught by the Lower Yukon 8.25" drift gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2002.

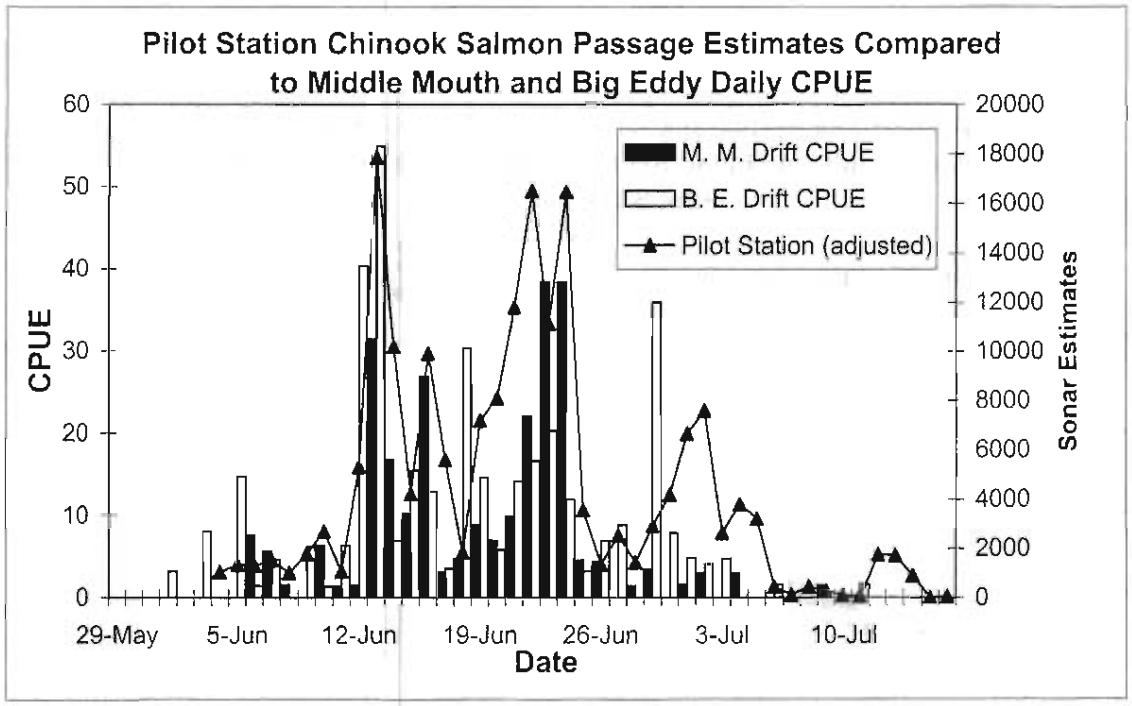

Figure 3. Chinook Salmon Caught in the Big Eddy and Middle Mouth 8.25" drift gillnet test fishery compared to Pilot Station Chinook Salmon passage estimates corrected for transit time, 2002.

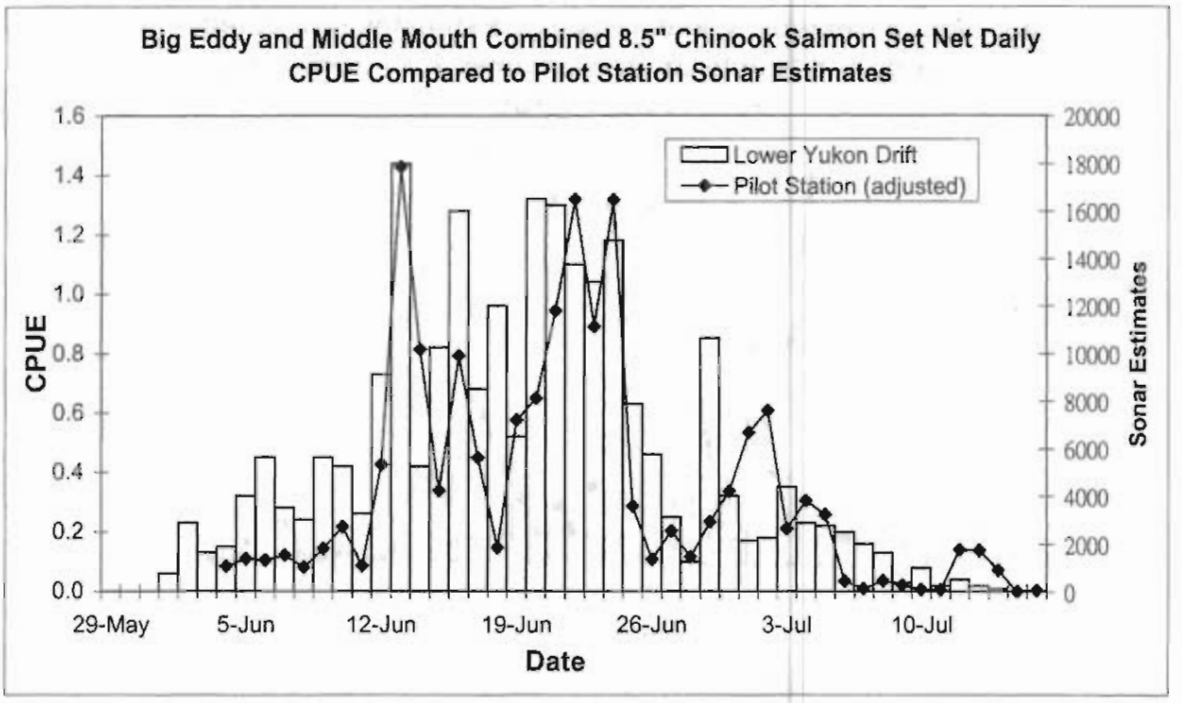

Figure 4. Chinook salmon caught by the Lower Yukon 8.5" set gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2002.

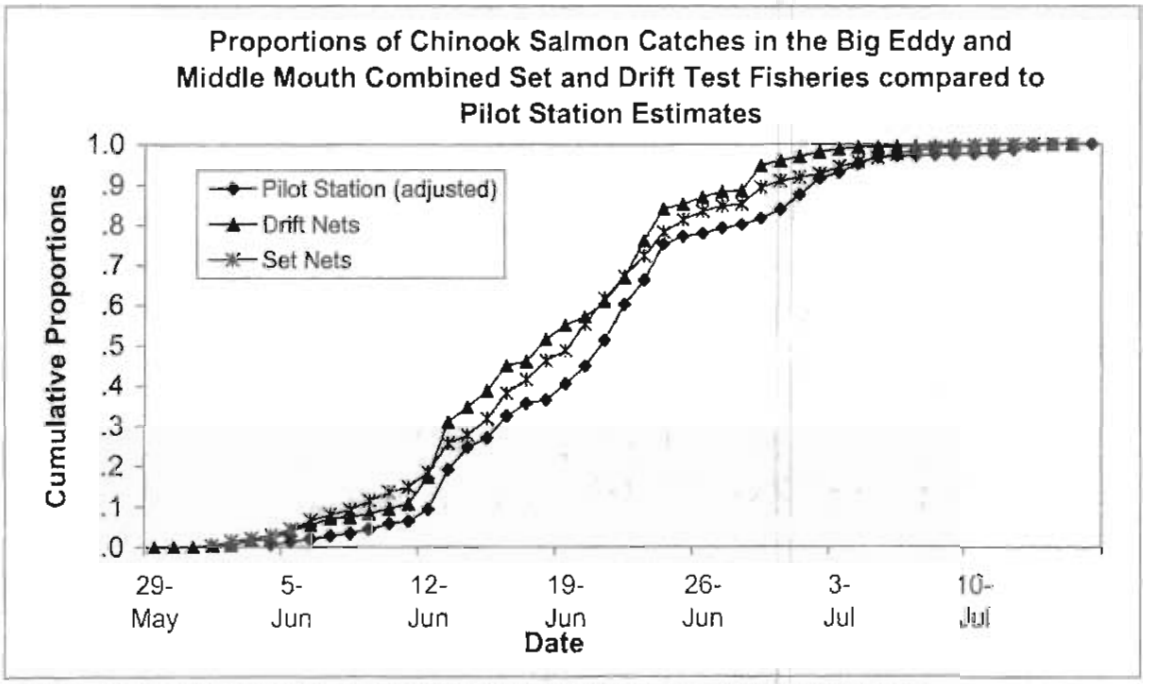

Figure 5. Cumulative proportions of the chinook salmon catches in the Lower Yukon 8.5" set and 8.25" drift gillnet test fisheries compared to Pilot Station chinook proportions, corrected for transit time 2002.

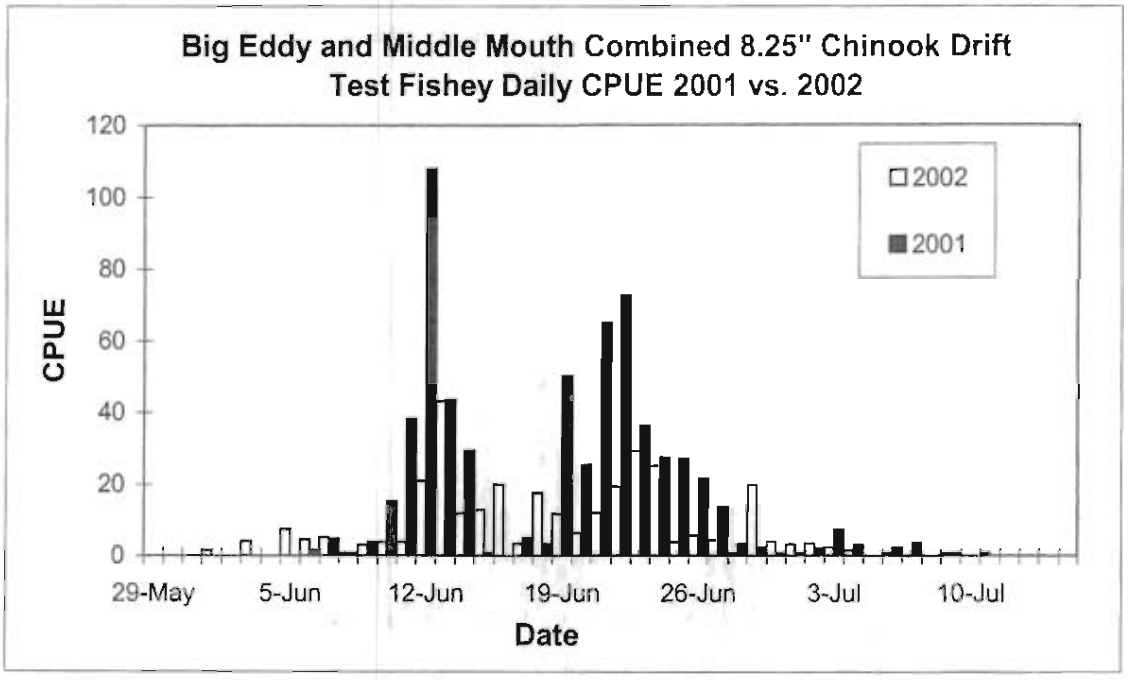

Figure 6. Daily CPUE for Lower Yukon 8.25" drift gillnet chinook salmon test fishery, 2001 compared to 2002.

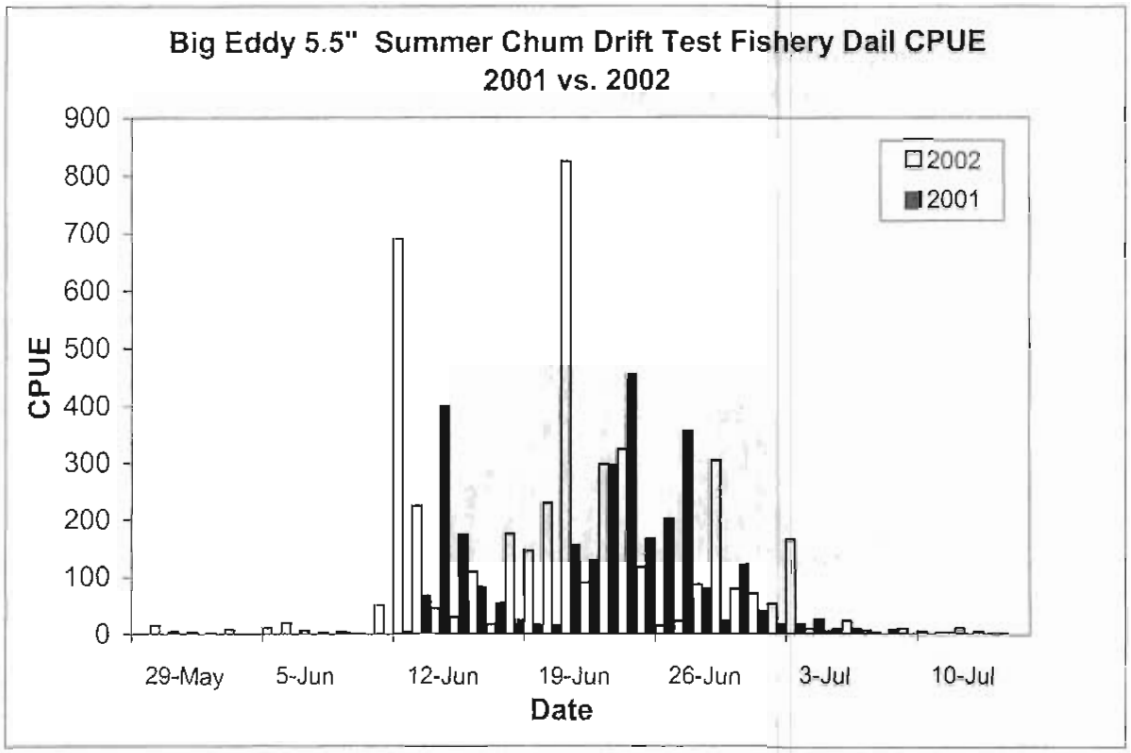

Figure 7. Daily CPUE for Big Eddy Daily 5.5" drift gillnet summer chum salmon test fishery, 2001 compared to 2002.

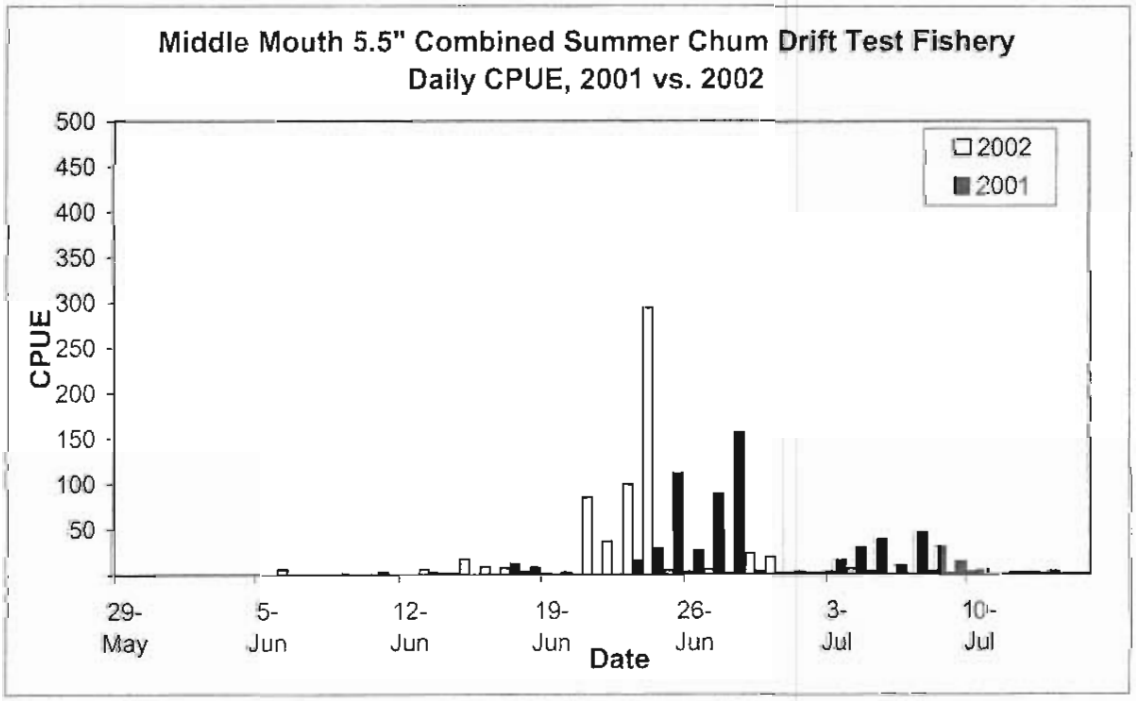

Figure 8. Daily CPUE for Middle Mouth 5.5" drift gillnet summer chum salmon test fishery, 2001 compared to 2002.

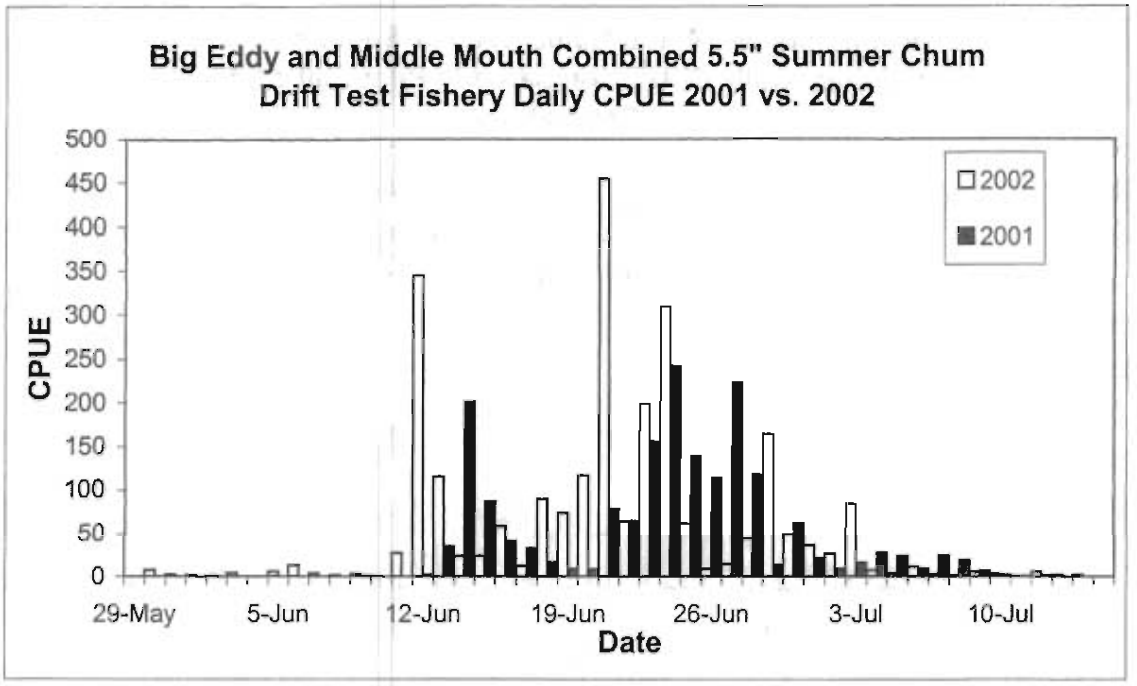

Figure 9. Daily CPUE for Lower Yukon Daily 5.5" drift gillnet summer chum salmon test fishery, 2001 compared to 2002.

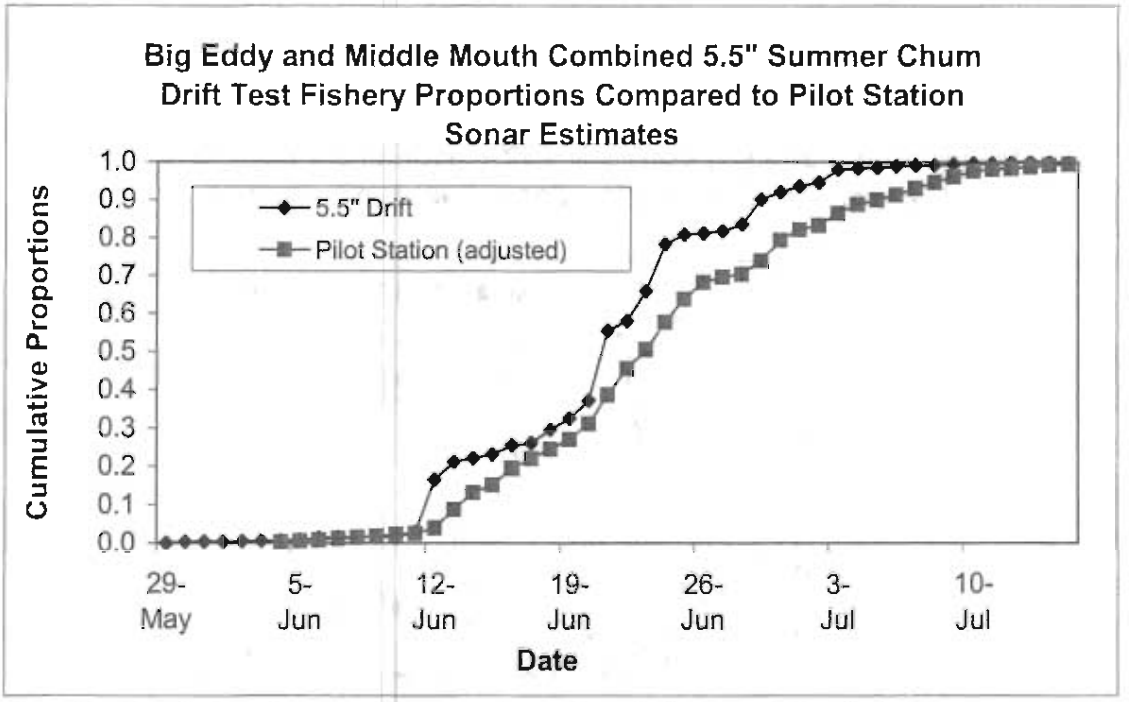

Figure 10. Cumulative proportions for summer chum salmon in the Lower Yukon drift gillnet test fisheries compared to Pilot Station summer chum proportions, adjusted for transit time 2002.

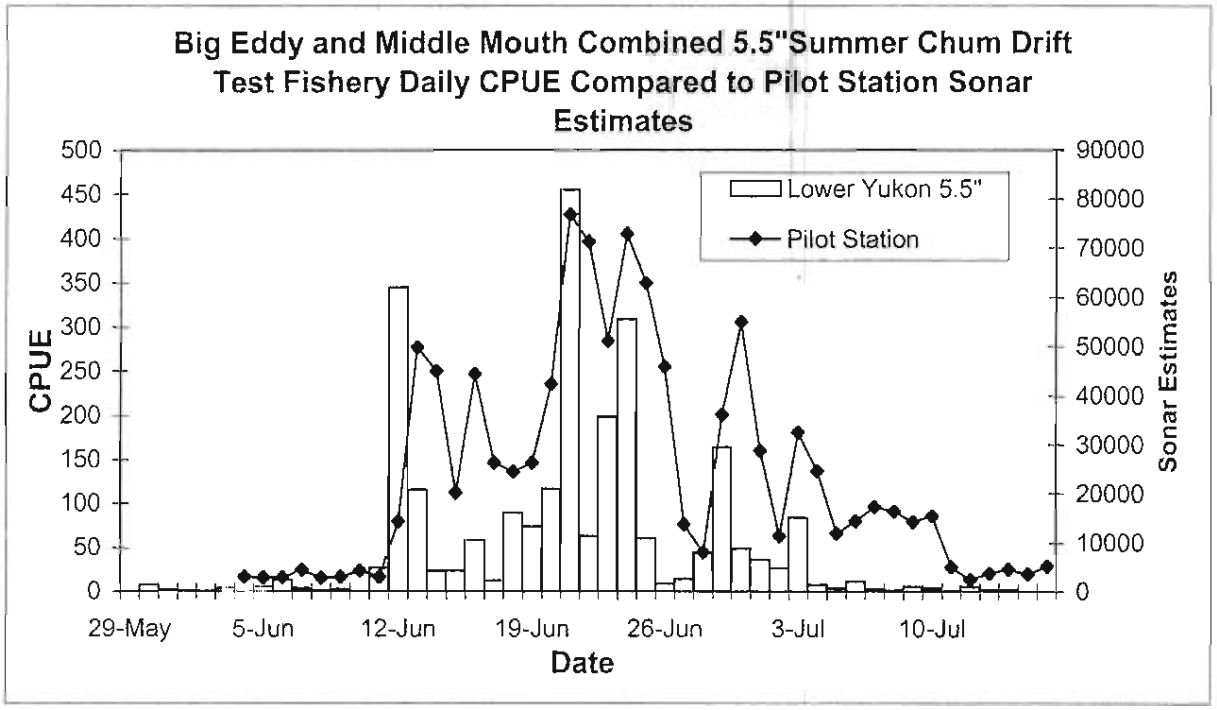

Figure. 11 Lower Yukon 5.5" summer chum drift gillnet test fisheries combined daily CPUE, compared to Pilot Station sonar passage estimates adjusted for transit time, 2002.

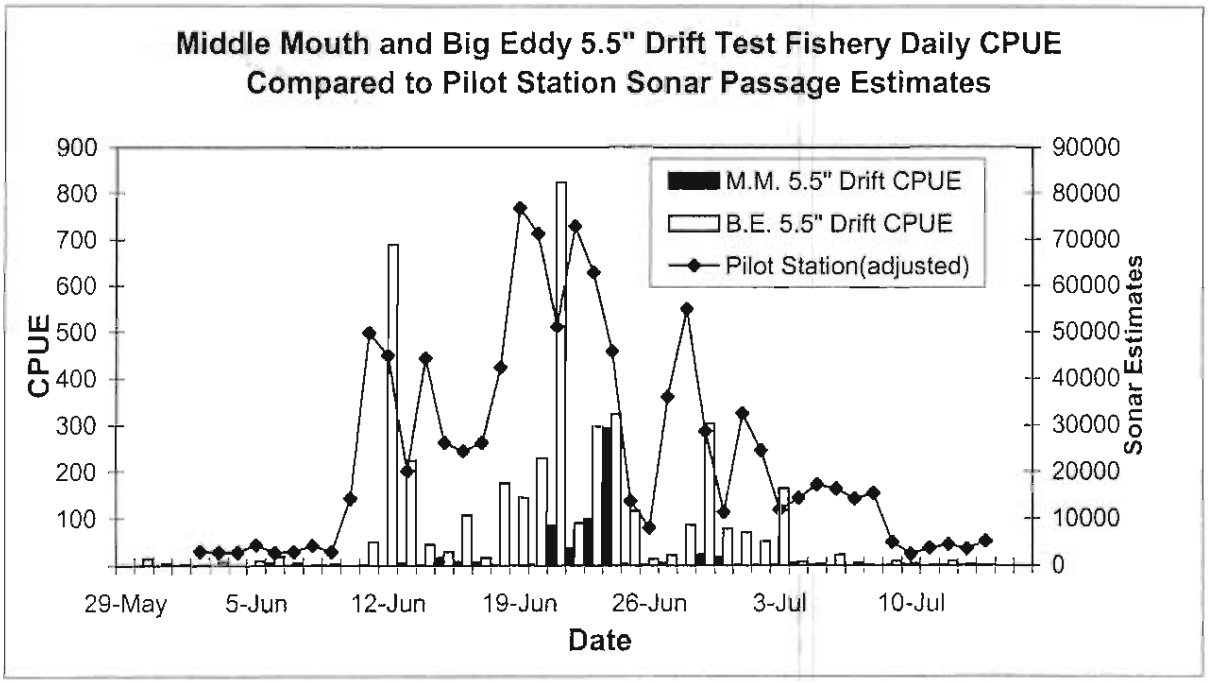

Figure 12. Daily CPUE for the Middle Mouth and Big Eddy 5.5" summer chum salmon drift gillnet test fisheries, compared to Pilot Station summer chum sonar passage estimates, 2002.

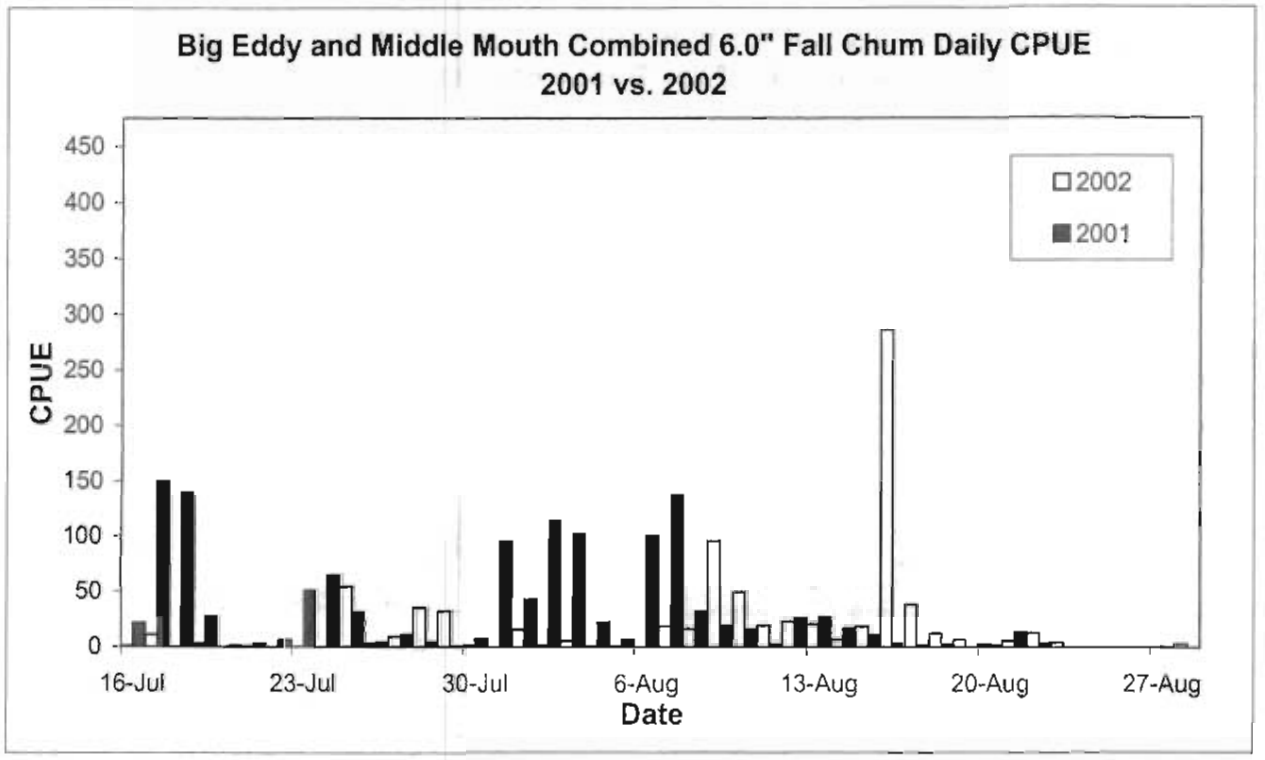

Figure 13. Daily CPUE for Lower Yukon 6.0" fall chum salmon drift gillnet test fishery, 2001 compared to 2002

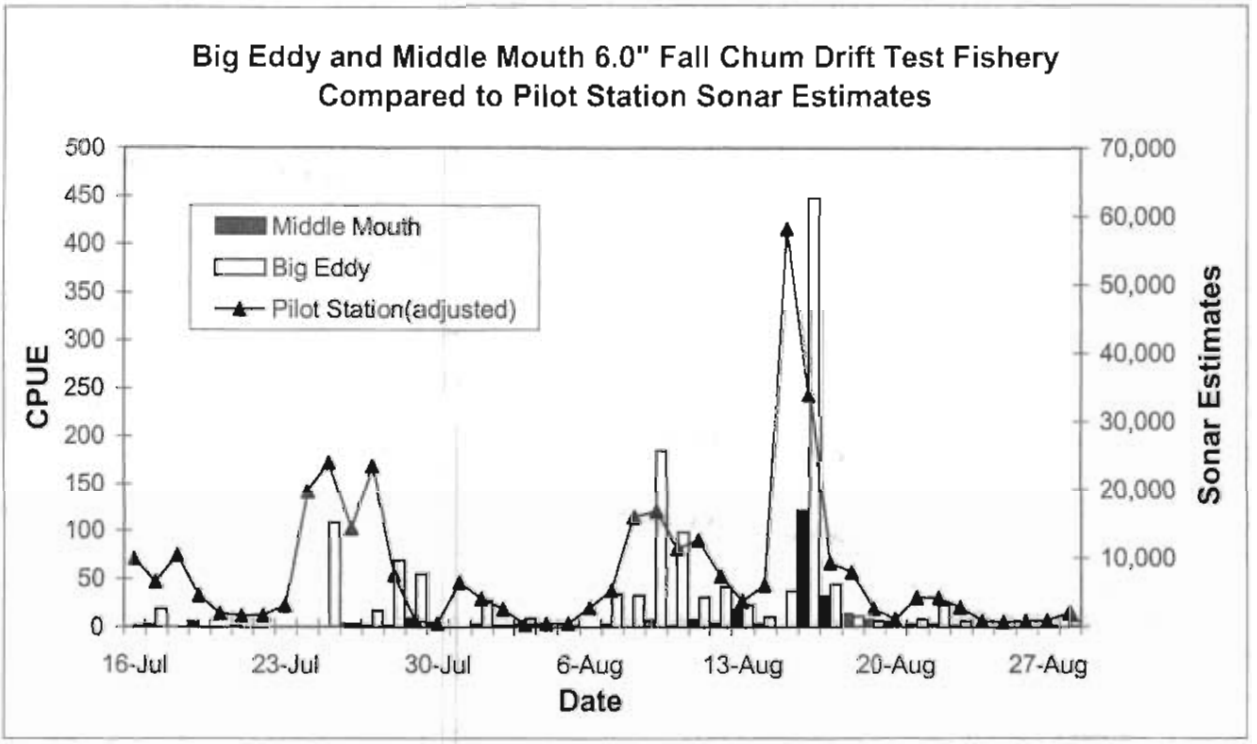

Figure 14. Daily CPUE for the Big Eddy and Middle Mouth 6.0" fall chum salmon drift gillnet test fishery, compared to Pilot Station sonar passage estimates, 2002.

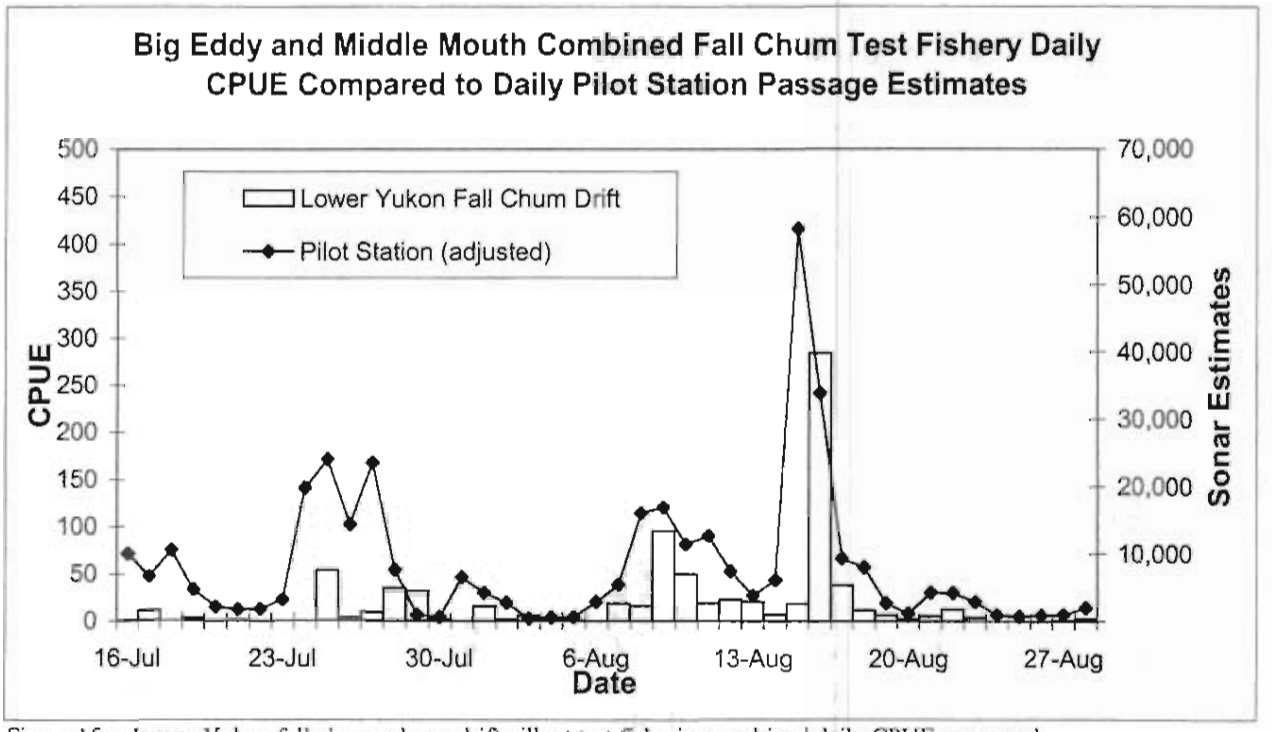

Figure 15. Lower Yukon fall chum salmon drift gillnet test fisheries combined daily CPUE compared to Pilot Station sonar passage estimates adjusted for transit time, 2002.

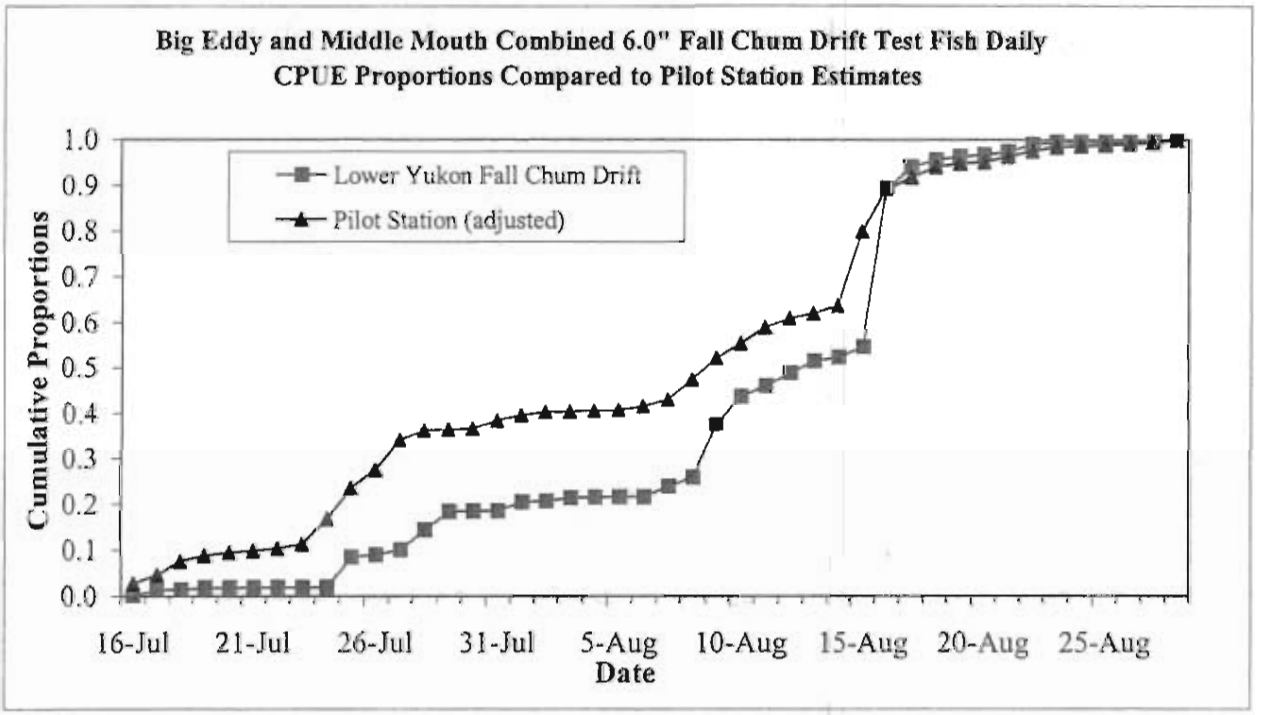

Figure 16. Proportions for the Lower Yukon 6.0" fall chum salmon drift gillnet test fishery compared to Pilot Station fall chum proportoins adjusted for transit time, 2002

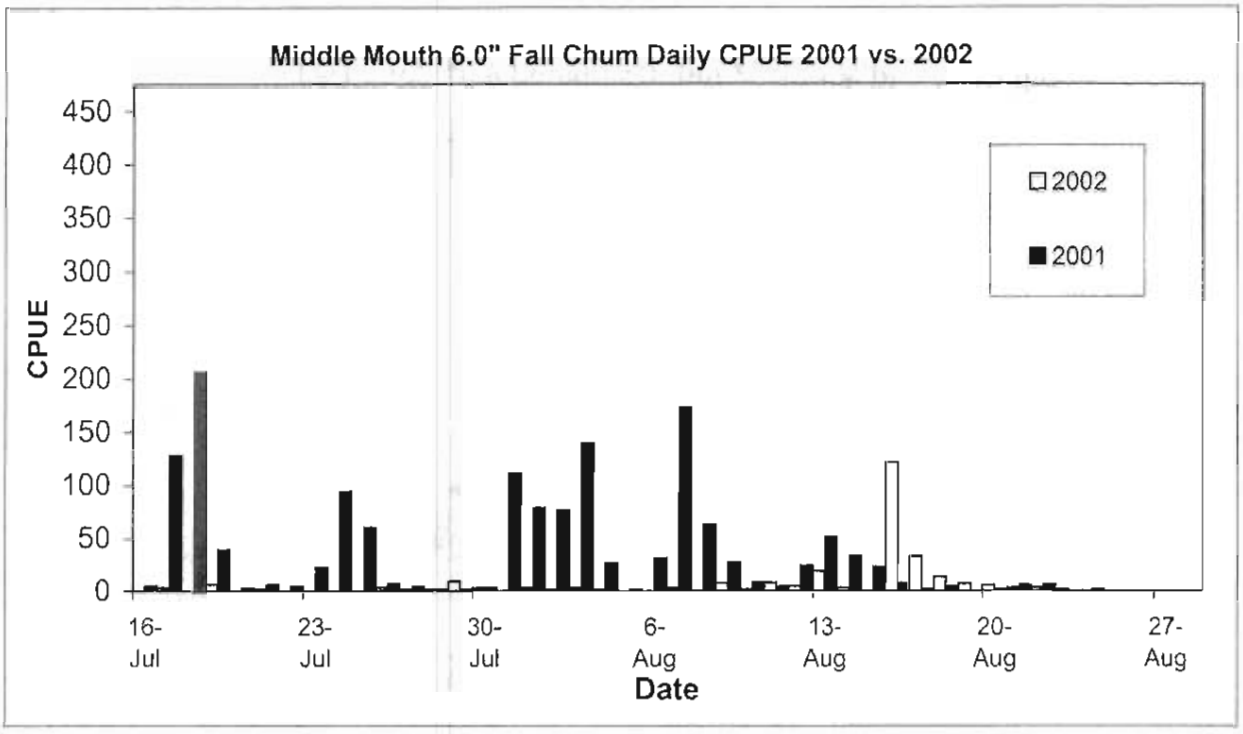

Figure 17. Middle Mouth 6.0" fall chum salmon drift gillnet test fishery daily CPUE, 2001 compared to 2002.

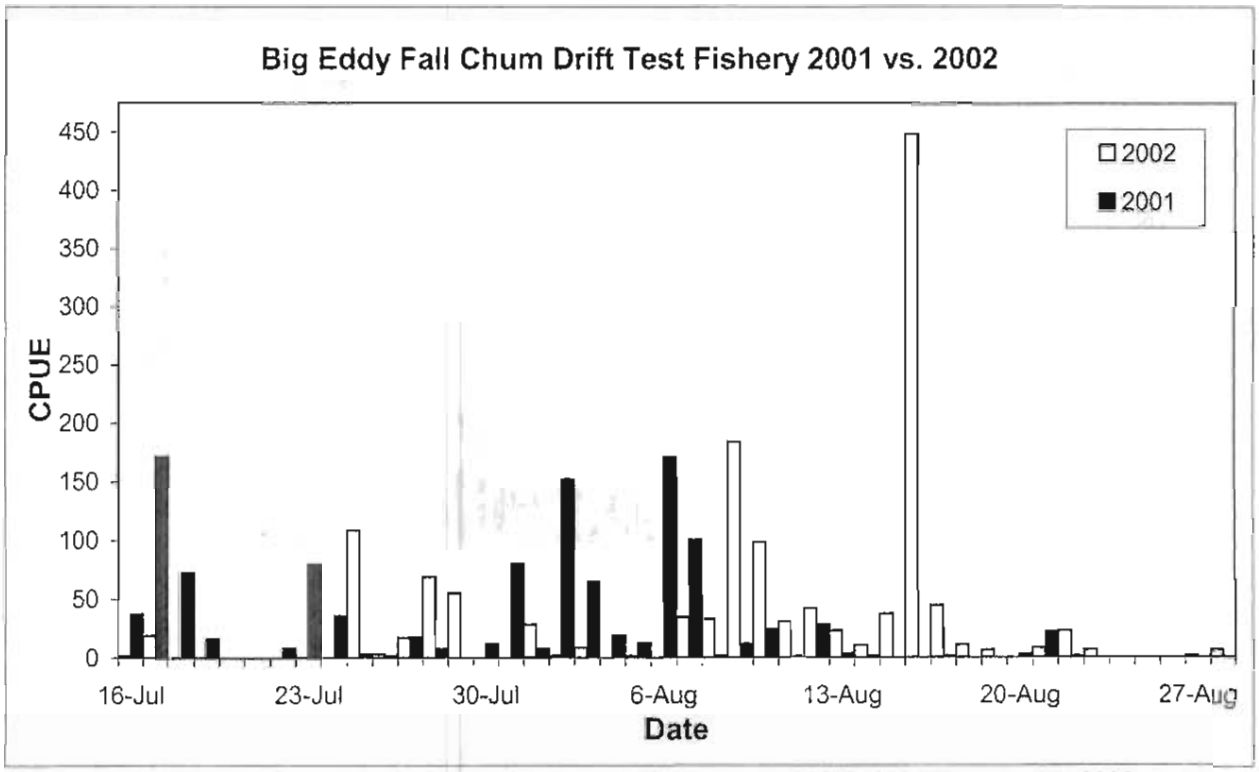

Figure 18. Big Eddy 6.0" fall chum salmon drift gillnet test fishery daily CPUE, 2001 compared to 2002.

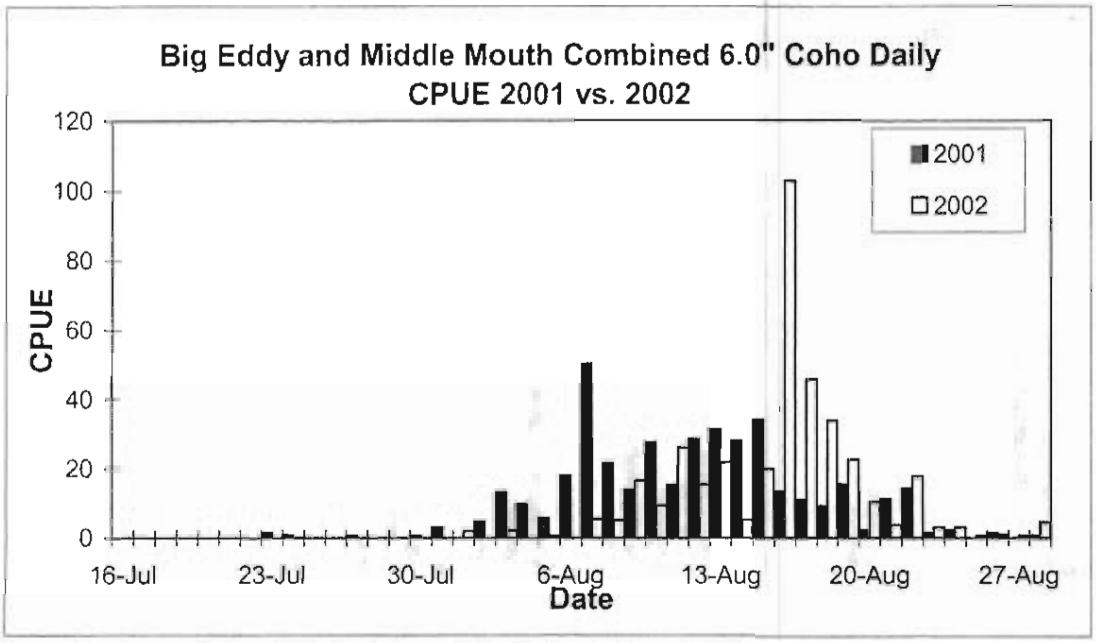

Figure 19. Lower Yukon 6.0" coho salmon drift gillnet test fishery, 2001 compared to 2002.

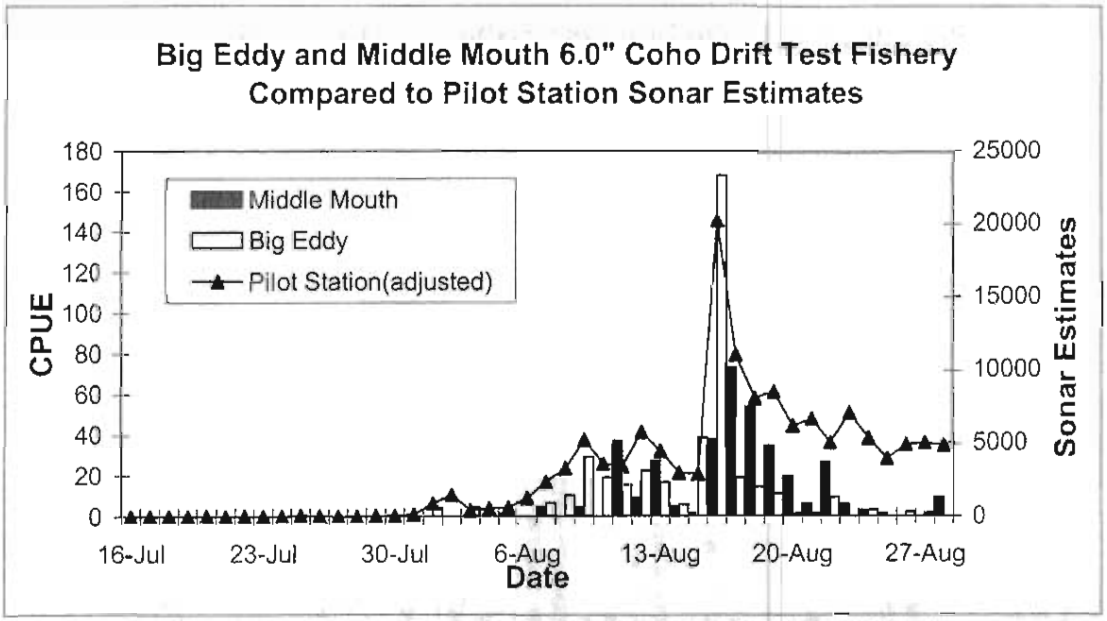

Figure 20. Daily CPUE for coho salmon from Middle Mouth and Big Eddy 6.0" fall drift gillnet test fishery, compared to Pilot Station sonar passage estimates, 2002.

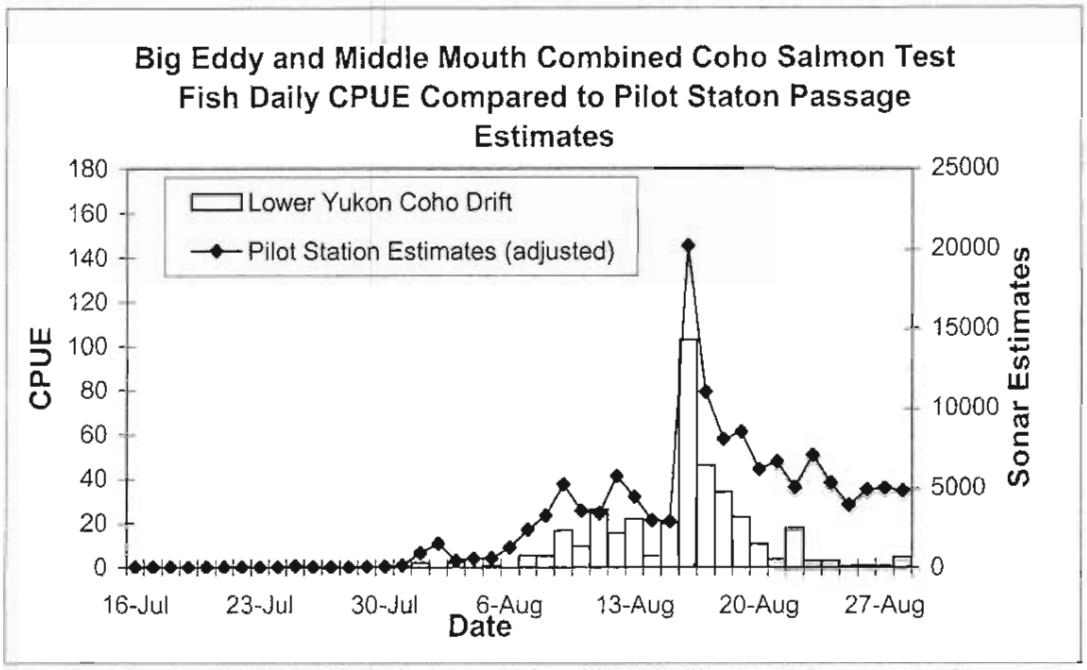

Figure 21. Combined daily CPUE for the Lower Yukon 6.0" drift gillnet test fishery compared to sonar passage estimates from Pilot Station adjusted for transit time, 2002.

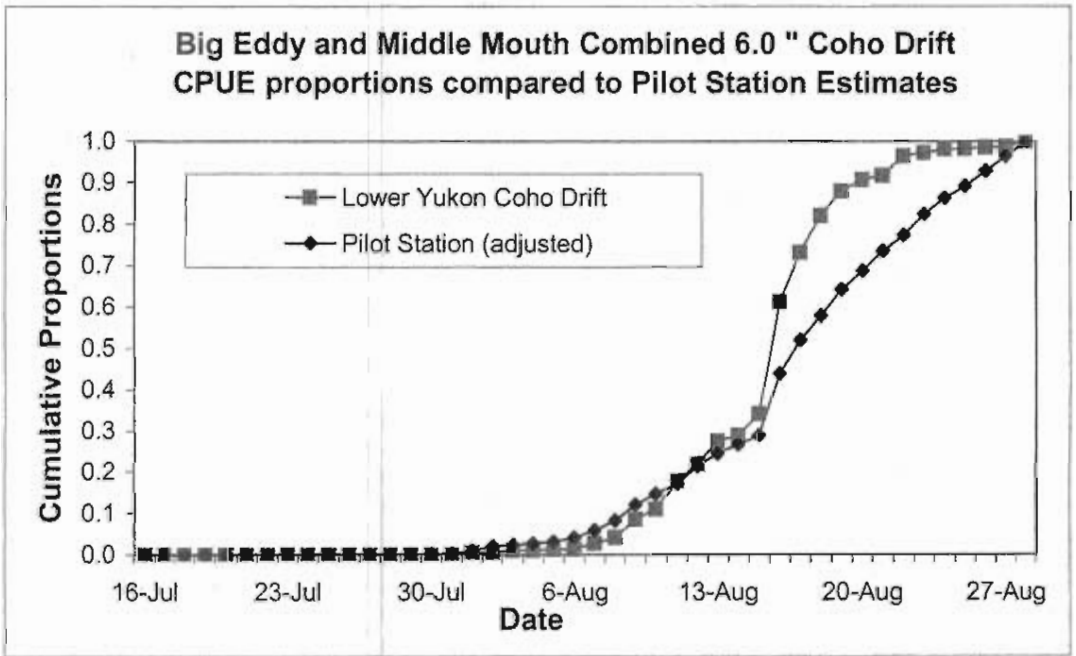

Figure 22. Proportions for the Lower Yukon 6.0" coho salmon drift gillnet test fishery compared to Pilot Station coho proportions adjusted for transit time, 2002.

APPENDIX A: LOWER YUKON DRIFT GILLNET TEST FISHERY SOAK TIMES, 2002.

Appendix A.1. Big Eddy and Middle Mouth drift gillnet test fishery soak times, 2002.

Big Eddy 8.25" drift gillnet chinook test fishery							Middle Mouth 8.25" drift gillnet chinook test fishery						
Date	Time 1	Time 2	Time 3	Time 4	Total	Chinook Catch	Date	Time 1	Time 2	Time 3	Time 4	Total	Chinook Catch
29-May	0.0	0.0	19.0	18.0	37.0	0							
30-May	19.0	0.0	19.0	18.5	56.5	0							
31-May	19.0	18.5	20.5	20.5	78.5	0							
1-Jun	19.5	18.0	18.5	20.5	76.5	2							
2-Jun	19.5	20.5	19.5	20.0	79.5	0							
3-Jun	20.0	20.5	18.5	18.5	77.5	5							
4-Jun	20.0	19.5	0.0	0.0	39.5	0							
5-Jun	20.0	20.5	20.5	19.0	80.0	10	5-Jun	0.00	0.0	20.0	20.5	40.5	0
6-Jun	20.0	20.5	20.0	19.5	80.0	1	6-Jun	19.5	20	20.0	20.0	79.5	5
7-Jun	19.0	19.5	20.0	19.5	78.0	3	7-Jun	21.5	20.5	20.0	20.5	82.5	4
8-Jun	18.5	17.0	19.5	19.0	74.0	0	8-Jun	20.5	19.5	20.5	21.0	81.5	1
9-Jun	19.0	20.0	20.5	19.5	79.0	4	9-Jun	19.0	18.0	19.0	19.0	75.0	0
10-Jun	20.0	19.5	65.0	37.0	141.5	3	10-Jun	21.0	20.5	19.0	19.5	80.0	4
11-Jun	33.5	51.5	20.0	19.5	124.5	5	11-Jun	21.0	19.0	19.0	19.0	78.0	1
12-Jun	21.5	20.0	20.5	17.5	79.5	28	12-Jun	20.0	19.0	19.5	20.0	78.5	1
13-Jun	18.5	15	0.0	0.0	33.5	16	13-Jun	20.5	19.5	20.0	19.5	79.5	21
14-Jun	16.5	19	20.0	19.5	74.5	4	14-Jun	19.5	18.5	21.5	20.5	80.0	11
15-Jun	20.5	19.5	23.0	19.0	82.0	11	15-Jun	20.0	21.5	20.0	21.0	82.5	7
16-Jun	19.0	18.5	18.5	17.5	73.5	8	16-Jun	0.0	0.0	20.0	19.5	39.5	9
17-Jun	17.0	17.0	18.0	18.0	70.0	2	17-Jun	19.5	19.0	19.5	20.0	78.0	2
18-Jun	15.5	21.5	18.5	18.0	73.5	10	18-Jun	19.0	19.0	19.5	21.5	79.0	3
19-Jun	18.0	16.0	21.5	20.5	76.0	9	19-Jun	20.5	19.5	20.0	20.0	80.0	6
20-Jun	21.0	20.0	0.0	0.0	41.0	2	20-Jun	19.0	19.5	21.5	20.5	80.5	5
21-Jun	21.0	22.5	19.5	17.5	80.5	10	21-Jun	22.0	20.5	21.0	21.0	84.5	7
22-Jun	19.0	20.5	21.0	19.0	79.5	11	22-Jun	19.0	18.0	20.0	19.5	76.5	14
23-Jun	18.5	20.5	20.0	17.0	76.0	13	23-Jun	19.5	19.0	23.0	14.0	75.5	23
24-Jun	18.5	20.0	0.0	0.0	38.5	4	24-Jun	12.5	16.0	0.0	0.0	28.5	8
25-Jun	17.5	18.5	19.0	19.5	74.5	2	25-Jun	19.5	20.0	20.5	19.5	79.5	3
26-Jun	20.0	22.0	19.0	19.0	80.0	5	26-Jun	21.0	19.0	20.0	20.5	80.5	3
27-Jun	20.0	20.5	0.0	0.0	40.5	3	27-Jun	19.0	20.0	0.0	0.0	39.0	0
28-Jun	0.0	0.0	21.0	20.0	41.0	0	28-Jun	20.5	20.5	20.0	20.5	81.5	1
29-Jun	18.5	19.0	21.0	21.5	80.0	25	29-Jun	21.0	20.5	20.5	19.5	81.5	3
30-Jun	19.0	17.0	18.0	19.5	73.5	5	30-Jun	0.0	0.0	20.0	20.5	40.5	0
1-Jul	20.5	17.0	18.0	19.5	75.0	3	1-Jul	18.5	19.0	19.5	19.5	76.5	1
2-Jul	18.5	18.5	22.0	22.0	81.0	3	2-Jul	20.0	19.5	20.0	19.0	78.5	2
3-Jul	19.0	18.5	18.5	18.5	74.5	3	3-Jul	20.5	21.0	20.0	19.0	80.5	0
4-Jul	0.0	0.0	17.5	18.5	36.0	0	4-Jul	0.0	0.0	20.0	19.0	39.0	1
5-Jul	19.0	17.5	18.5	18.5	73.5	0	5-Jul	20.5	20.0	19.5	20.5	80.5	0
6-Jul	18.5	18.5	18.5	18.0	73.5	1	6-Jul	20.0	19.5	20.0	20.0	79.5	0
7-Jul	18.5	18.5	19.5	18.5	75.0	0	7-Jul	18.5	19.0	19.5	19.5	76.5	0
8-Jul	17.5	20.5	19.0	18.0	75.0	0	8-Jul	0.0	0.0	20.0	19.5	39.5	0
9-Jul	19.0	17.5	18.0	18.5	73.0	0	9-Jul	20.0	19.5	20.5	20.0	80.0	1
10-Jul	18.5	18.0	18.0	18.0	72.5	0	10-Jul	19.5	21.0	0.0	0.0	40.5	0
11-Jul	18.5	18.0	18.0	18.0	72.5	1	11-Jul	19.5	19.0	19.5	19.0	77.0	0
12-Jul	0.0	0.0	18.0	18.0	36.0	0	12-Jul	20.0	19.0	19.5	19.0	77.5	0
13-Jul	18.0	19.0	18.0	19.0	74.0	0	13-Jul	19.0	20.0	19.5	19.5	78.0	0
14-Jul	0.0	0.0	19.5	18.0	37.5	0	14-Jul	19.0	19.0	19.5	19.5	77.0	0
15-Jul	18.0	18.0	18.5	18.0	72.5	0	15-Jul	0.0	0.0	20.0	19.5	39.5	0
Daily Average					70.2		Daily Average					70.3	
Drift Average			17.6	Catch Total		212	Drift Average		17.6		Catch Total		147

Big Eddy 5.5" drift gillnet summer chum test fishery

Date	Time 1	Time 2	Time 3	Time 4	Total	Chum Catch
29-May	0.0	0.0	19.0	18.0	37.0	0
30-May	20.0	0.0	19.5	18.5	58.0	7
31-May	18.5	19.5	19.0	21.0	78.0	3
1-Jun	20.5	19.5	19.0	21.0	80.0	2
2-Jun	20.0	20.0	19.5	20.0	79.5	1
3-Jun	19.5	19.5	19.5	27.0	85.5	7
4-Jun	19.5	20.0	0.0	0.0	39.5	0
5-Jun	22.0	19.5	19.5	18.0	79.0	7
6-Jun	19.5	20.0	20.5	16.0	76.0	13
7-Jun	20.0	20.5	20.0	19.0	79.5	4
8-Jun	18.5	20.0	20.0	20.0	78.5	2
9-Jun	20.0	19.5	19.5	20.0	79.0	3
10-Jun	20.0	20.0	55.0	19.0	114.0	1
11-Jun	38.5	38.0	21.0	23.0	120.5	45
12-Jun	26.5	24.0	16.0	23.5	90.0	363
13-Jun	16.0	8.5	0.0	0.0	24.5	22
14-Jun	10.5	19.0	21.0	18.5	69.0	24
15-Jun	20.0	20.0	17.0	20.0	77.0	19
16-Jun	16.5	21.0	17.0	23.5	78.0	70
17-Jun	19.0	18.0	18.5	20.5	76.0	11
18-Jun	19.5	25.5	19.0	21.0	85.0	126
19-Jun	24.5	14.5	15.0	21.0	75.0	100
20-Jun	28.0	15.5	0.0	0.0	43.5	96
21-Jun	27.0	12.0	19.5	13.5	72.0	340
22-Jun	11.5	18.5	19.0	20.0	69.0	40
23-Jun	18.0	17.5	20.5	19.0	75.0	185
24-Jun	23.5	14.0	0.0	0.0	37.5	114
25-Jun	21.5	24.0	18.0	20.5	84.0	87
26-Jun	22.5	19.0	19.5	20.0	81.0	11
27-Jun	19.0	21.0	0.0	0.0	40.0	8
28-Jun	0.0	0.0	14.0	20.5	34.5	24
29-Jun		30.0	13.5	21.0	64.5	187
30-Jun	16.5	20.0	18.0	19.0	73.5	48
1-Jul	21.0	19.5	17.5	22.5	80.5	49
2-Jul	15.0	17.0	7.5	20.0	59.5	26
3-Jul	18.5	13.0	24.5	22.0	78.0	90
4-Jul	0.0	0.0	20.5	18.5	39.0	3
5-Jul	19.5	19.0	18.5	18.0	75.0	3
6-Jul	19.0	18.0	19.5	19.5	76.0	15
7-Jul	24.5	18.0	17.5	17.5	77.5	5
8-Jul	19.5	17.5	18.5	18.0	73.5	0
9-Jul	19.5	18.5	19.5	18.0	75.5	6
10-Jul	19.0	18.0	18.5	17.5	73.0	3
11-Jul	18.0	18.5	18.0	17.5	72.0	1
12-Jul	18.5	18.5	18.0	18.5	73.5	3
13-Jul	18.0	18.5	19.0	17.5	73.0	2
14-Jul	18.0	18.0	18.0	18.0	72.0	1
15-Jul	17.5	17.5	18.0	18.0	71.0	0
Daily Average					70.9	
Drift Average			17.8	Catch Total		2,177

Middle Mouth 5.5" drift gillnet summer chum test fishery

Date	Time 1	Time 2	Time 3	Time 4	Total	Chum Catch
5-Jun	0.0	0.0	19.0	20.5	39.5	0
6-Jun	19.0	19.0	20.5	20.5	79.0	4
7-Jun	20.0	20.0	20.5	20.5	81.0	1
8-Jun	20.0	20.0	20.0	23.0	83.0	0
9-Jun	19.5	20.0	19.0	19.5	78.0	1
10-Jun	20.5	19.0	19.0	20.5	79.0	0
11-Jun	19.5	19.5	19.5	19.0	77.5	2
12-Jun	20.0	19.0	19.5	20.0	78.5	0
13-Jun	19.5	19.0	20.0	19.0	77.5	4
14-Jun	19.5	18.5	18.5	19.5	76.0	1
15-Jun	20.5	19.5	15.5	20.5	76.0	9
16-Jun	0.0	0.0	20.0	20.5	40.5	3
17-Jun	19.5	19.0	19.5	20.5	78.5	5
18-Jun	19.5	19.0	19.5	19.0	77.0	2
19-Jun	19.5	19.0	20.0	19.0	77.5	1
20-Jun	20.0	20.0	19.5	20.0	79.5	2
21-Jun	20.0	20.0	21.0	21.5	82.5	58
22-Jun	17.5	10.0	19.5	20.0	67.0	18
23-Jun	18.5	19.5	16.5	12.5	67.0	48
24-Jun	15.5	12.0	0.0	0.0	27.5	66
25-Jun	19.5	19.5	19.0	19.0	77.0	3
26-Jun	19.5	19.5	19.5	19.0	77.5	2
27-Jun	19.5	20.0	0.0	0.0	39.5	2
28-Jun	20.0	19.5	20.0	19.5	79.0	1
29-Jun	20.0	21.0	19.0	20.0	80.0	16
30-Jun	0.0	0.0	18.0	20.0	38.0	6
1-Jul	21.5	20.5	19.5	19.0	80.5	1
2-Jul	20.5	20.0	20.5	19.5	80.5	1
3-Jul	20.5	19.5	19.5	20.0	79.5	2
4-Jul	0.0	0.0	20.0	20.0	40.0	2
5-Jul	19.5	19.5	21.5	20.0	80.5	2
6-Jul	20.0	19.0	19.5	20.0	78.5	0
7-Jul	18.0	17.5	19.5	19.5	74.5	0
8-Jul	0.0	0.0	20.0	20.5	40.5	1
9-Jul	19.5	19.0	20.0	19.5	78.0	1
10-Jul	19.5	20.0	0.0	0.0	39.5	1
11-Jul	19.0	19.5	19.5	20.0	78.0	0
12-Jul	17.5	20.0	19.0	19.5	76.0	1
13-Jul	19.5	20.5	20.0	20.0	80.0	1
14-Jul	19.0	19.0	20.0	19.5	77.5	2
15-Jul	0.0	0.0	19.0	19.0	38.0	0
Daily Average					69.1	
Drift Average			17.3	Catch Total		270

Big Eddy 6.0" drift gillnet fall test fishery

Date	Time 1	Time 2	Time 3	Time 4	Total	Fall Chum Catch	Coho Catch
16-Jul	18.0	18.0	19.0	18.5	73.5	1	0
17-Jul	19.0	19.0	18.0	27.5	83.5	17	0
18-Jul	18.0	18.5	18.0	20.0	74.5	0	0
19-Jul	18.0	18.5	18.0	20.0	74.5	0	0
20-Jul	18.0	20.0	18.0	18.0	74.0	0	0
21-Jul	18.0	18.5	18.0	17.5	72.0	0	0
22-Jul	18.0	18.0	18.0	18.5	72.5	0	0
23-Jul	19.0	19.5	20.0	19.0	77.5	0	0
24-Jul	18.5	18.5	18.5	18.5	74.0	0	0
25-Jul	19.0	18.5	23.5	15.5	76.5	81	0
26-Jul	18.5	19.0	0.0	0.0	37.5	1	0
27-Jul	18.0	19.0	19.5	19.0	75.5	11	0
28-Jul	15.5	20.5	19.5	19.5	75.0	44	0
29-Jul	23.0	27.0	18.5	19.0	87.5	47	0
30-Jul	19.0	18.0	20.0	18.5	75.5	0	0
31-Jul	18.5	18.0	19.5	19.0	75.0	0	0
1-Aug	19.0	20.0	20.5	23.0	82.5	21	3
2-Aug	18.5	18.0	19.5	18.5	74.5	1	0
3-Aug	19.0	21.0	18.5	19.5	78.0	6	3
4-Aug	19.5	19.5	19.0	18.5	76.5	0	0
5-Aug	18.0	19.0	19.0	19.0	75.0	1	0
6-Aug	19.0	19.0	20.0	19.5	77.5	0	0
7-Aug	17.5	24.5	19.5	18.5	80.0	26	5
8-Aug	20.0	20.0	20.0	24.5	84.5	25	8
9-Aug	19.5	24.0	19.0	19.0	81.5	127	19
10-Aug	23.0	27.0	17.0	19.0	86.0	77	15
11-Aug	23.0	23.5	0.0	0.0	46.5	12	6
12-Aug	20.0	21.5	18.5	16.0	76.0	28	14
13-Aug	20.0	19.0	20.5	17.5	77.0	15	11
14-Aug	18.5	18.5	21.5	17.5	76.0	7	4
15-Aug	20.0	20.0	16.5	23.0	79.5	26	27
16-Aug	20.0	26.5	17.5	10.5	74.5	242	63
17-Aug	10.5	21.0	22.5	24.5	78.5	34	11
18-Aug	18.5	19.5	22.5	19.0	79.5	8	10
19-Aug	19.0	19.0	17.5	19.0	74.5	4	7
20-Aug	19.0	21.0	18.5	19.0	77.5	0	1
21-Aug	19.0	17.5	19.0	19.5	75.0	4	1
22-Aug	20.0	19.0	18.0	21.0	78.0	15	6
23-Aug	18.5	19.0	0.0	0.0	37.5	2	0
24-Aug	18.5	17.5	0.0	0.0	36.0	0	1
25-Aug	18.0	19.0	18.0	18.5	73.5	0	0
26-Aug	19.5	0.0	19.0	19.5	58.0	0	1
27-Aug	19.5	19.0	19.0	20.0	77.5	1	1
28-Aug	19.5	19.0	18.5	19.0	76.0	4	0
Daily Average					73.3		
Drift Average			18.3	Catch Total		888	217

Middle Mouth 6.0" drift gillnet fall test fishery

Date	Time 1	Time 2	Time 3	Time 4	Total	Fall Chum Catch	Coho Catch
16-Jul	19.0	20.0	21.0	20.0	80.0	0	0
17-Jul	20.5	20.0	18.5	20.5	79.5	2	0
18-Jul	18.0	19.0	20.5	19.5	77.0	0	0
19-Jul	20.5	20.5	18.5	19.5	79.0	4	0
20-Jul	18.5	19.0	20.0	20.0	77.5	0	0
21-Jul	19.0	20.5	19.5	19.5	78.5	1	0
22-Jul	19.5	20.0	19.5	20.0	79.0	0	0
23-Jul	17.5	19.5	20.0	20.0	77.0	0	0
24-Jul	19.0	18.5	18.5	19.0	75.0	0	0
25-Jul	20.0	19.5	18.5	19.0	77.0	0	0
26-Jul	17.0	17.5	19.5	19.5	73.5	2	0
27-Jul	18.5	19.0	20.0	19.5	77.0	1	0
28-Jul	19.5	19.5	19.5	20.0	78.5	1	0
29-Jul	19.5	19.5	0.0	0.0	39.0	3	0
30-Jul	18.5	19.0	19.0	20.0	76.5	2	0
31-Jul	19.0	18.5	18.0	18.0	73.5	0	0
1-Aug	19.0	19.5	19.0	19.5	77.0	2	0
2-Aug	19.5	20.0	19.5	19.5	78.5	1	0
3-Aug	20.0	20.0	19.0	19.0	78.0	2	0
4-Aug	20.0	19.5	19.5	20.0	79.0	1	0
5-Aug	19.5	20.0	21.0	21.0	81.5	0	1
6-Aug	19.5	19.5	20.0	20.0	79.0	0	0
7-Aug	19.5	19.5	19.5	19.5	78.0	1	3
8-Aug	19.5	20.0	20.0	19.5	79.0	0	0
9-Aug	20.0	20.5	20.0	20.0	80.5	5	3
10-Aug	19.5	20.0	19.5	19.0	78.0	1	0
11-Aug	19.5	19.5	19.5	18.5	77.0	5	24
12-Aug	20.0	20.5	19.0	20.0	79.5	3	6
13-Aug	20.0	19.0	0.0	0.0	39.0	6	9
14-Aug	18.5	18.0	20.5	19.0	76.0	2	3
15-Aug	19.0	19.0	18.5	19.5	76.0	0	1
16-Aug	0.0	0.0	17.5	15.0	32.5	31	11
17-Aug	22.5	12.5	18.5	20.5	74.0	23	52
18-Aug	17.5	21.0	17.0	19.5	75.0	8	31
19-Aug	20.0	22.0	20.0	19.0	81.0	5	23
20-Aug	19.0	19.0	12.0	18.5	68.5	3	9
21-Aug	20.0	20.5	19.5	19.0	79.0	2	4
22-Aug	20.5	17.5	20.0	19.5	77.5	2	18
23-Aug	19.5	20.0	20.0	20.0	79.5	1	4
24-Aug	20.0	19.5	19.0	19.0	77.5	0	2
25-Aug	19.5	19.5	19.0	20.0	78.0	0	1
26-Aug	19.5	20.0	19.5	19.0	78.0	0	0
27-Aug	19.0	20.0	0.0	0.0	39.0	0	0
28-Aug	19.5	20.0	0.0	0.0	39.5	0	3
Daily Average					73.0		
Drift Average			18.3	Catch Total		120	208

APPENDIX A.2: LOWER YUKON DRIFT GILLNET TEST FISHERY CATCH DISTRIBUTION, 2002.

Appendix A.2. Species captured, retained, and released during the lower Yukon drift gillnet test fishery summer and fall seasons, 2002.[a]

	Big Eddy				Middle Mouth				Total			
Species	Chinook	S. Chum	F.Chum	Coho	Chinook	S.Chum	F.Chum	Coho	Chinook	S.Chum	F.Chum	Coho
Fish released unharmed	45		11	4	54	18	12	7	99	18	23	11
Test fish sales	20	133	0	0	35	30	0	0	55	163	0	0
Fish discarded	2	36	0	0	10	16	0	0	12	52	0	0
Test fish donated locally	215	2,085	877	213	72	221	108	201	287	2,306	985	414
Total catch	282	2,344	888	217	171	285	120	208	453	2,629	1,008	425

[a] Chinook and summer chum catches include fish caught in both 5.5" and 8.25" gear so catch totals are larger than in tables 1 &3